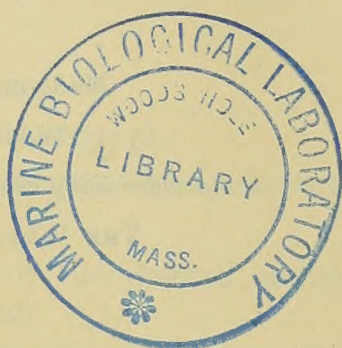


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3

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5



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F.A.O. Fisheries Biology Branch

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CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—EXPLANATION OF COVERAGE AND ARRANGEMENT

9. ERRATA AND ADDENDA to "EXPLANATION OF COVERAGE AND ARRANGEMENT" (contd.)

1. SCOPE AND COVERAGE OF BIBLIOGRAPHY

Delete from the second sentence of first paragraph:

"generally are included where their contents seem relevant to appraisal and use of resources".

Insert under first paragraph, instead of the deleted sentence "generally are included . . ." the following:

"are only included (a) if they are publications of international organizations (b) where their contents seem relevant to appraisal and use of resources or (c) if they are from a periodical the contents of which are entered completely (see below); in all such cases the references concerned can be recognized by an "X" above their serial number on the right of the page."

Delete from paragraph 4 on page Ex 4 the penultimate sentence:

"They can be . . . on the right of the page."

3. REFERENCES

In the first sentence of second paragraph, replace:

"and has a six-digit number,"

by

"and has a number of seven digits (six digits only for series 57-, 58-, 59-, and 60-),"

3.1 *Authors*

Names and Abbreviations of Organizations

Insert, in alphabetic order, the following:

EURATOM	..	European Atomic Energy Community Communauté Européenne de l'Énergie Atomique
OEEC/EPA	..	European Productivity Agency Agence Européenne de Productivité

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

PINRO Polar Research and Designing Institute of Marine Fisheries and Oceanography
Полярный Научно-Исследовательский и Проектный Институт Морского Рыбного Хозяйства и Океанографий

Insert under VNIRO the following English name above the original Russian:

All-Union Institute of Marine Fisheries and Oceanography

3.4 *Pagination*

Insert a final paragraph as follows:

“ Reprints sometimes have their own pagination; where it is necessary to make an entry from such a reprint, the colon is followed by the symbol ‘ Repr. ’ and the page numbers as given or ‘ unpag. ’ and the number of pages.”

3.5 *Titles*

Languages, English and native names and symbols

Insert, in alphabetic order, the following:

Basque	Euskara	Eu
Catalan	Catala	Ca
Flemish	Vlamsch	Vl
Quechua	Quechua	Qu
Serbo-Croatian <i>see</i> Croatian		
Sinhalese	Sinhala	Sin

4. ANNOTATIONS AND TREATMENT OF SPECIAL CASES

4.1 *Treatment of publications not seen by compilers*

Code for Abstracting Journals

Insert, in alphabetic order, the following:

Bibliographia Oceanographica	..	BO
Bibliography of Scientific Publications of South and South East Asia	.. ..	BSA
Index Medicus	.. ..	IM
Japan Science Review—Biological Sciences	..	JSR-BS
Journal du Conseil (ICES)	.. ..	JC
Refektivny i Zhurnal	.. ..	RZ
Translated Contents List of Russian Journals	..	TCL
World Agricultural Economics and Rural Sociology Abstracts	.. ..	WAERSA

EXPLANATION OF COVERAGE AND ARRANGEMENT

5. INDEXES

5.3 *Taxonomic*

Taxonomic Classification

Add the following new sentence under paragraph 1, following the second sentence ending with "1, FISHES." :

"[The system is essentially compatible with the 'Biology Code of the Chemical-Biological Coordination Centre', Field, E. *Taxonomy Code*, published in 1960 by the U.S. National Academy of Sciences—National Research Council.]"

5.4 *Subject*

SUBJECTS—TWO DIGIT CODE

Add the following title at the end of the list as two digit code 7.8:

7.8 *FAO*

(FAO publications, publications by FAO staff, documents concerning FAO activities.)

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—ERRATA

61-001er to 61-010er

Delete the following entries :

(571540)	(581436)	61-001er
(581884)	(584298)	(581604)
(585398)	(585798)	(584327)
(59-2139)	(59-2169)	(59-1980)
(59-2825)	(59-2952)	(59-2817)
(59-6952)	(59-7327)	(59-5506)
(59-8342)	(59-8354)	(59-8175)
(59-8863)	(60-0686)	(59-8767)
(60-2971)	(60-3139)	(60-2358)
(60-3182)	(60-5453)	(60-3147)
(60-5758)	(60-3472)	(60-5520)
(60-2800)	(60-4254)	(60-2965)
		(60-9080)

Anon. (1959) *should read*
Kinney, E. C., Jr. (1959)

61-002er
(60-4300)

Italy. Istituto Sperimentale Talassografico *should read*
Italy. Istituto Sperimentale Talassografico

61-003er
(60-3720)

S. Afr. Shipp. News Ind. Rev. should read
S. Afr. Shipp. News Fish. Ind. Rev.

61-004er
(60-2299) (60-2300)

Helsingfors. Hydrografise Toimisto *should read*
Helsinki. Hydrografen Toimisto

61-005er
(60-6025)

Conf. on Physical & Chemical Properties should read
Publ. nat. Acad. Sci., Wash., (600) : 185-97

61-006er
(59-7509)

Vestn. leningr. Univ. (fiz.-khim.) 14 (1) : 119-27 should read
Vestn. leningr. Univ. (biol.), 1959 (9) : 119-27

61-007er
(60-4389)

Nordström, S. (1960?)* *should read*
Nordström, S. (1958)

61-008er
(60-9997)

Florida State Board of Conservation *should read*
Prof. Pap. Ser. Fla Bd Conserv. Mar. Lab., (1) : 104 p.

61-009er
(60-9191)

Vop. Teor. Rybl'ov., mimeo, 42 p. should read
Moskva, VNIRO, Voprosy teorii rybolovstva, 42 p.

61-010er
(60-7325)

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—ADDENDA

61-001ad to 61-049ad

Annotation: Makes known this early developmental stage of recently described polydorid. 61-001ad
(60-8809)

Annotation: Gives notes on systematics of *Oikopleura dioica* and *O. fusiformis*, *Doliolum (Dolioletta) valdiviae*, *Pyrosoma atlanticum* and *P. spinosum*, and of the salps *Iasis zonaria*, *Thalia democratica*, *Pegaea confoederata*, *Salpa fusiformis* f. *aspera* *Ihleia magalhanica*. Discusses occurrences in relation to temperatures and salinities, and the distribution of spp. 61-002ad
(60-8810)

Annotation: Describes the shell, radula and operculum of specimens found at Puerto Rico. Issued also as: *Contr. Inst. Mar. Biol. Univ. Puerto Rico*, 1 (8). 61-003ad
(59-7454)

Annotation: Detailed description of occurrence of *Petromyzon marinus*. 61-004ad
(59-8159)

Annotation: Compares four "hardware" lures—spinners, Dardevle, flatfish—with artificial fly, with respect to hooking mortality and catchability. 61-005ad
(59-2500)

Annotation: Semi-popular review of the biology of algae, their distribution in fresh and salt water and their utilization by aquatic animals and men. 61-006ad
(59-2985)

Authors: Drilhon, A., J. M. Fine & F. Daoulas (1958) 61-007ad
Ref.: 35 (2) : 142-58. (59-2582)

Annotation: Study of various marine and fresh water spp. by paper and gelose electrophoresis.

Ref.: 33 (4) : 202-67. 61-008ad

Annotation: Study of chemical composition of sediments, precipitation of carbonates, and seum. (59-3688)

Ref.: 35 (3) : 159-234 61-009ad

Annotation: Taxonomic and bathymetric distribution, characteristic associations and faunistic notes (59-2583)

Ref.: 35 (1) : 1-140 61-010ad

Annotation: Results of granulometric study of the coastal sands, coast dynamics and submarine sedimentology of the continental shelf of Provence. (59-2567)

Annotation: Published erratum: Er61-011ad
J. Fish. Res. Bd Can., 16 (6) : 929. (571448)

Annotation: Published erratum: Er61-012ad
J. Fish. Res. Bd Can., 16 (6) : 929. (582507)

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

- Annotation:* Published erratum: Er61-013ad
J. Fish. Res. Bd Can., 16 (6) : 929. (583325)
- Annotation:* Published erratum: Er61-014ad
J. Fish. Res. Bd Can., 16 (6) : 929. (59-2284)
- Ref.*: 707 p. 61-015ad
 (60-5198)
- Annotation:* Ill. genetics of colouration. 61-016ad
 (59-7477)
- Annotation:* Describes experiments with *A. salina* in various Na-salt solutions. 61-017ad
 (59-6173)
- Annotation:* Describes the effects of sea water and stronger salt concentrations on the hemolymph of this sp. 61-018ad
 (60-5427)
- Annotation:* Reports that the gut is responsible for regulation of balance between water and salt. 61-019ad
 (59-5988)
- Annotation:* Describes trematode parasitic on *Lates calcarifer* Bloch. 61-020ad
 (59-7435)
- Annotation:* Available fishes in representative faunal areas are subjected to a series of carefully controlled situations and stimulations as a means of evaluating their sound-making ability. The tables present data on 24 spp. of North Atlantic coastal fishes and 19 spp. of typical subtropical Atlantic spp. 61-021ad
 (60-7270)
- Annotation:* Issued also as: 61-022ad
Trans. R. Soc. Edinb., 63 (1) : 185-220. (59-2657)
- Ref.*: 61 p. 61-023ad
Annotation: A popular view of submarine topography with some notes on submarine geology in general. (59-3024)
- Annotation:* Issued also as: 61-024ad
Contr. Shimonoseki Coll. Fish., (287). (60-7511)
- Annotation:* Issued also as: 61-025ad
Contr. Shimonoseki Coll. Fish., (288). (60-7510)
- Annotation:* Issued also as: 61-026ad
Contr. Shimonoseki Coll. Fish., (289). (60-7509)
- Annotation:* Issued also as: 61-027ad
Contr. Shimonoseki Coll. Fish., (290). (60-7506)
- Annotation:* Issued also as: 61-028ad
Contr. Shimonoseki Coll. Fish., (291). (60-7514)
- Annotation:* Issued also as: 61-029ad
Contr. Shimonoseki Coll. Fish., (292). (60-7513)

ADDENDA

- Ref.*: 39 (2) : 217-26 61-030ad
Annotation: Issued also as: (60-5181)
Mar. Repr. Mar. Lab., Aberdeen, (127)
- Ref.*: (21 & 22) : 15 p. 61-031ad
Title: Lofotfiskets lønnsomhet 1958 (The rentability of Lofoten fishery 1958) (60-0680)
Annotation: Catches, participation, gear, and vessels in use, earnings and costs.
- Annotation*: Issued also as: 61-032ad
Contr. Nankai reg. Fish. Res. Lab. (147) (60-9144)
- Annotation*: Reviews and evaluates existing data and information relative to the effects of SWL on oysters and other marine life. 61-033ad (60-9190)
- Annotation*: There are indices to chemical compounds and to the scientific and common names of plants and animals, and a bibliography arranged alphabetically according to author. 61-034ad (60-9386)
- Annotation*: Co 60-4299. 61-035ad
Ab 1954 Kinney, E. C., Jr. (Thesis, Ohio State Univ.) (60-4300)
- Annotation*: *En* 61-07280, but lacking some diagrams in the original. 61-036ad (59-6672)
- Annotation*: Orig. issued as: *J. Mar. biol. Ass. India*, 1 (2) : 224-7. 61-037ad
 Reviews data collected by Andhra Univ. since 1952; river run-off; (60-0922)
 monsoon effects; fisheries possibilities.
- Annotation*: Defines and describes area and stations where collections were made. Presents data under headings of each sp. arranged in phylogenetic order. Lists common names used locally. 61-038ad (60-9191)
- Annotation*: Issued also as: 61-039ad
Annu. Conf. stheast. Ass. Game Commrs, (13) : 116-20. (60-5095)
- Annotation*: Issued also as: 61-040ad
Trans. N. Amer. Wild. Conf., (24) : 187-200. (60-5096)
- Annotation*: Issued also as: 61-041ad
Tech. Rep. Taft Engng Cent., (W58-2) : 157-76. (59-0348) (60-5308)
- Annotation*: Issued also as: 61-042ad
Tech. Rep. Taft Engng Cent., (W58-2) : 133-42. (59-1383)
- Reference*: 15-20. 61-043ad (59-5745)
- Annotation*: Issued also as: *Bull. Hakodate Mar. met. Obs., Item 2, (7) : 5 p.* 61-044ad (60-9089)
- Annotation*: Issued also as: *Bull. Hakodate Mar. met. Obs., Item 1, (7) : 10 p.* 61-045ad (60-9083)

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

Annotation: Issued also as: *Bull. Hakodate Mar. met. Obs.*, Item 3, 61-046ad
(7) : 6 p. (60-9096)

Author: Austria. FAC Committee (n.d.) 61-047ad
(60-5991)

Annotation: Special consideration of methods of making observations in "dirty" water and under adverse weather conditions. 61-048ad
(60-8973)

Annotation: Collects results of exploratory work conducted on 61-049ad
Oncorhynchus kisutch and *Cottus perplexus*. Describes methods (60-2804)
and apparatus used.

REFERENCES

- M
61-00001
- Lear, J.** (1960)
New Scient., 8 (199) : 650
 A scientific adventure at sea
 Commenting on recent studies of sea level.
- MF
61-00002
- Beck, C. A.** (1960)
New Scient., 8 (197) : 529-31
 The chemical study of underwater explosions
- F
61-00003
- Anon.** (1960)
New Scient., 8 (197) : 533
 Visual pigments in fish
 Composition of extracts of pigments of *Scardinius erythrophthalmus* have been found by H. J. A. Dartnall and others of the British Institute of Ophthalmology to vary according to the time of the year. Two pigments are present in varying proportions.
- M
61-00004
- Anon.** (1960)
New Scient., 8 (196) : 475
 Layering coral
 Note on work of G. Scheer reported in *Naturwissenschaften*, (10) 1960 : 238 on growth of *Goniopora*, observed on 'Xarifa' expedition to Nicobar and Maldive Islands.
- M
61-00005
- Anon.** (1960)
New Scient., 8 (200) : 716-7
 The study of movement in the seas
 Biography of G. E. R. Deacon.
- MF
61-00006
- Pirie, N. W.** (1960)
Discovery, 21 (9) : 374-9
 New sources of food
 Includes reference to fisheries and fish culture. Improvement of marine resources and pollution; algal culture.
- M
61-00007
- Sykes, J. H. M.** (1960)
Discovery, 21 (9) : 392-4
 Sea temperature differences
 In tropical zones the sea is much colder at the bottom than it is on the surface. This difference of temperatures represents potential energy awaiting exploitation.

- Southward, A. J.** (1960) M
61-00008
Discovery, 21 (8) : 330-7
 Farming the sea

According to the author the full exploitation of the vast resources of the sea requires the control of all nutrients and of the feeding, breeding, and migration of all marine creatures. This, however, is a very long-term plan; the development of the fisheries for plankton-feeding animals offers a short-term gain.

- Smith, A. G.** (1959)* M
61-00009
Rep. Amer. malacol. Un., 1959 : 41
 Kodachromes of the Cape San Lucas area

BA 35 (14) 36567.

- Keen, A. M.** (1959)* MF
61-00010
Rep. Amer. malacol. Un., 1959 : 36-7
 The molluscan section, British Museum of Natural History

BA 35 (14) 36587.

- Solem, A.** (1959)* MF
61-00011
Rep. Amer. malacol. Un., 1959 : 38
 Molluscan work at the Chicago Natural History Museum

BA 35 (14) 36588.

- Baker, H. B. & H. J. Stewart** (1960) MF
61-00012
Nautilus, 73 (4) : 159-60
 James Zetek, 1886-1959

BA 35 (14) 36623. Brief sketch of his life and career as a zoologist, with special reference to his work on molluscs.

- Fondation Universitaire, Brussels** (1960) MF
61-00013
 Brussels, 18 p.

Increasing the effectiveness of western science

Report of a study sponsored by NATO Science Committee, partially financed by Ford Foundation; initiated 14 Sep. 1959. Chapters on obstacles to advance; promoting progress by national and international action; the application of science; recommendations. Oceanography, meteorology, and water pollution are suggested as areas of sciences particularly suitable for international research. Considers problems of documentation and indexing, supply of equipment, exchange and employment of scientists.

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- M
61-00014
- Lill, G. (1960)**
Discovery, 21 (7) : 316
 The earth beneath the sea
 Re 60-3283.
- M
61-00015
- Film (1960)**
 Plymouth Films Ltd.
 The seashore
 16 mm, 20 min, sound, colour.
- M
61-00016
- Horiguchi, Y. (1959)**
Rep. Fac. Fish. Univ. Mie, 3 (2) : 381-90
 (Biochemical studies on *Pteria (Pinctada) martensii* (Dunker) and *Hyriopsis schlegelii* (V. Martens). 5. Studies on absorption, excretion and renewal of Ca in *Pteria (Pinctada) martensii* (Dunker) using ^{45}Ca). Ni En
- M
61-00017
- Segi, T. (1959)**
Rep. Fac. Fish. Univ. Mie, 3 (2) : 257-65
 Further study of *Polysiphonia* from Japan. I.
 Description of 10 species.
- M
61-00018
- Nair, P. V. R. (1959)**
Bull. Res. Inst. Univ. Kerala, Ser. C, 7 (1) : 1-63
 The marine planktonic diatoms of the Trivandrum coast
 Systematic list, with morphological and distribution notes, prepared from material collected in regular bi-weekly collections. The species are grouped as neritic or oceanic and within these groups as arctic, temperate or tropical.
- M
61-00019
- John, C. C. & C. V. Kurien (1959)**
Bull. Res. Inst. Univ. Kerala, Ser. C, 7 (1) : 155-62
 A preliminary note on the occurrence of deep water prawn and spiny lobster off the Kerala coast
 Note on the taking of *Penaeopsis philippii* (Bate) and *Panulirus sewelli* Ramadan, in the course of survey operations at the edge of the continental shelf (86 to 150 fathoms).
- M
61-00020
- John, C. C. (1959)**
Bull. Res. Inst. Univ. Kerala, Ser. C, 7 (1) : 65-145
 Fishes and fisheries of the Cape Comorin Bank
 Review of fishing operations in this area, with check list of species taken.

- F
61-00021
- Padmanabhan, K. G.** (1959)
Bull. Res. Inst. Univ. Kerala, Ser. C, 7 (1) : 147-54
 Early stages in the development of *Laubuca dadiburjori* (Menon)
 Breeding habits, embryonic and larval development.
- M
61-00022
- Anon.** (1959)
Bull. Hakodate Mar. met. Obs., 6 : Item 7, 4 p.
 (Forecast of water temperature in the sea east of Tohoku district in mid-summer, 1958). *Ni En*
 Prediction based on observations of various features of prevailing sea conditions during spring and of water temperature in midsummer.
- M
61-00023
- Watanabe, K.** (1959)
Bull. Hakodate Mar. met. Obs., 6 : Item 7, 4 p.
 On the first appearance of drift-ice in every winter and the seasonal variation of oceanographic conditions in the south-western region of the Okhotsk Sea.
Ni En
- M
61-00024
- Aoki, K. & S. Miura** (1959)
Bull. Hakodate Mar. met. Obs., 6 : Item 9, 9 p.
 (On the local heavy rainfall over south-western part of Hokkaido on April 21, 1958). *Ni En*
 Analysis of the distribution of this fall and of the determining factors.
- M
61-00025
- Sawada, T.** (1959)
Bull. Hakodate Mar. met. Obs., 6 : Item 8, 6 p.
 (An ice-area navigation on the north Pacific Ocean). *Ni En*
 Location of ice areas and finding and making paths through them.
- M
61-00026
- Sawada, T.** (1959)
Bull. Hakodate Mar. met. Obs., 6 : Item 6, 7 p.
 (A method of forecasting the first date of the appearance of drift-ice area along the Okhotsk Sea-side coast). *Ni En*
 Presentation of a nomograph for forecasting ice area appearance by the addition of two vectors, velocity of current-induced and wind-induced drifts.
- M
61-00027
- Sugiura, J.** (1959)
Bull. Hakodate Mar. met. Obs., 6 : Item 4, 5 p.
 (Oceanographic conditions in the north-western north Pacific based upon the data obtained on board the 'Komahashi' from 1934-6). *Ni En*
 Report on volume transport of the Oyashio Current and of the westward current south of the Aleutian Islands.

REFERENCES

- M
61-00028
- McKinnon, G. W. (1960)**
Aust. J. Sci., 23 (2) : 50-1
 Structure of Antarctica

Referring to a letter by Taylor (*Aust. J. Sci.*, 22 (7) 1960, 299-300) cites paper by Bentley *et al.* (*Science*, 131 (3394) 1960, 131-6) disproving Taylor's view that there is a major channel connecting the Ross and Weddell Seas.

- MF
61-00029
- Western Australia. Fisheries Department (1960)**
Mon. Serv. Bull. Fish. Dep. W. Aust., 9 (5)

Notes on staff and their activities, and on regulations and legal actions; also notes of fishery developments, notably, in this issue, report of commencement of prawn and scallop prospecting near Shark Bay; notes on recent fishery publications.

- M
61-00030
- Uyeno, F. (1959)**
Rep. Fac. Fish. Univ. Mie, 3 (2) : 407-35

(Quantitative studies on the abundance and the seasons of bloom of some important diatom species in the neighbouring sea of Japan: analysis on the data of "Plankton Journal"). *Ni En*

Examination of the influence of temperature and salinity on distribution and abundance of various diatom species.

- M
61-00031
- Rochford, D. J. (1960)**
Aust. J. Mar. Freshw. Res., 11 (2) : 166-81
 Some aspects of the deep circulation of the Tasman and Coral Seas

Sections, for salinity, oxygen, and phosphate along meridian 155° E between latitudes 14° S and 42° S and zonal sections of the same properties between meridians 149° E and 155° E in the latitude range 14-15° S prepared from data from selected stations deeper than 2,000 m and discussed with reference to general circulation in this area.

- M
61-00032
- Rochford, D. J. (1960)**
Aust. J. Mar. Freshw. Res., 11 (2) : 127-47

The intermediate depth waters of the Tasman and Coral Seas. 1. The 27.20 sigma t surface

The distribution of salinity, dissolved oxygen and phosphates on the 27.20 sigma t surface of the Tasman and Coral Seas is examined. Their distribution patterns and the relations of salinity and phosphate values on this sigma t surface are explained by the horizontal mixing of three water types.

M

Rochford, D. J. (1960)

61-00033

Aust. J. Mar. Freshw. Res., 11 (2) : 148-65

The intermediate depth waters of the Tasman and Coral Seas. 2. The 26.80 sigma t surface

The distribution of salinity, dissolved oxygen, and phosphates on the 26.80 sigma t surface of the Tasman and Coral Seas is examined. The distribution patterns of these properties and the relations of salinity and phosphate and salinity and oxygen values are explained by horizontal mixing of three water types.

M

Bennett, I. & E. C. Pope (1960)

61-00034

Aust. J. Mar. Freshw. Res., 11 (2) : 182-221

Intertidal zonation of the exposed rocky shores of Tasmania and its relationship with the rest of Australia

The environmental factors and the zonation of the plants and animals on the exposed rocky coasts of Tasmania are described, and the findings of the present survey are compared with those of other workers both in Tasmania and in south-east Australia generally.

F

Byars, J. A. (1960)

61-00035

Aust. J. Mar. Freshw. Res., 11 (2) : 222-40

A freshwater pond in New Zealand

Report of one year's observation of physical and chemical factors and of plankton and examination of the effect of non-biological factors on zoo-plankton.

M

Stephenson, W. & R. B. Searles (1960)

61-00036

Aust. J. Mar. Freshw. Res., 11 (2) : 241-67

Experimental studies on the ecology of intertidal environments at Heron Island. 1. Exclusion of fish from beach rock

Description of zonation of dominant organisms on beach rock and examination of factors influencing the populations; experiments were conducted to assess various factors, notably browsing fish.

M

Van Pel, H. (1960)

61-00037

S. Pacif. Bull., 10 (3) : 25-8

S.P.C. fisheries investigations in Melanesia

Ill. account of visit to British Solomon Islands, Papua and New Guinea, and Netherlands New Guinea describing fishing and fish cultural activities seen, and reporting advice given.

M

Anon. (1960)

61-00038

S. Pacif. Bull., 10 (3) : 28

Encouraging trap fishing investigations in Cook Islands

Note on experiments in the use of traps for fishing on the Cook Islands.

REFERENCES

- M
61-00039
- Angot, M.** (1960)
S. Pacif. Bull., 10 (3) : 46-50
 The utilization of marine resources in French Polynesia
- Describes methods of fishing in lagoons, on reefs and outside reefs and general marketing arrangements.
- M
61-00040
- Yagiu, R. & Y. Shigenaka** (1960)
Zool. Mag., Tokyo, 69 (6) : 183-9
 (Electron microscopical observations of *Condyllostoma spatiosum* Ozaki & Yagiu, in ultra-thin section. 5. The longitudinal fibrillar bundle (Kineto-desma)). *Ni En*
- Morphological features at ultra-microscopic dimensions.
- F
61-00041
- Yamamoto, Y.** (1960)
Zool. Mag., Tokyo, 69 (6) : 195-201
 (Effect of eyestalk hormones on the midgut gland in the crayfish, *Procambarus clarkii*). *Ni En*
- Observations (histological) on the midgut gland (generally degeneration), with measurement of gastrolith weight and of mortality, in crayfish from which eyestalks were removed, and of supervening effects induced by implantation of contents of eyestalk with or without sinus gland, isolated X-organ, and the isolated sinus gland.
- M
61-00042
- Katada, M., K. Zama & H. Igarashi** (1960)
Bull. Jap. Soc. sci. Fish., 26 (4) : 425-9
 (Lipids of the muscle of tuna, *Thynnus orientalis*. 7. Distribution of lipids in dark-coloured muscle, ordinary muscle, and several other tissues). *Ni En*
- M
61-00043
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Experiments in transportation of fingerlings in a system aerated by pump compared with fingerlings transported without such aeration; different concentrations were tested; mortalities are reported.

- M
61-00131
- Ishibashi, M. & T. Yamamoto (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 73-8
 Chemical studies on the ocean: Part 78. Chemical studies on the seaweeds.
 6. The content of calcium, magnesium and phosphorus in seaweeds

Tabulation of analytical results.

- M
61-00132
- Ishibashi, M. & T. Yamamoto (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 79-84
 Chemical studies on the ocean: Part 79. Chemical studies on the seaweeds.
 7. Iron content in seaweeds

Tabulation of analytical results.

- M
61-00133
- Schotter, G. (1960)**
C.R. Acad. Sci., Paris, 251 (11) : 1174-5
 Sur la reproduction du *Gymnogongrus norvegicus* (Gunner) J. Agardh, en Méditerranée (On the reproduction of *Gymnogongrus norvegicus* (Gunner) J. Agardh, in the Mediterranean)

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- Rotschi, H. (1960)**
C.R. Acad. Sci., Paris, 251 (11) : 1223-5
 Sur la distribution du pH en mer de Corail (On the pH distribution in the Coral Sea)

1959 and 1960 observations made by 'Orsom III'; comparison with Atlantic valves, by depth; characteristic inversion noted during expeditions "Dillon" and "Choiseul".

- M
61-00135
- Ishibashi, M., T. Fujinaga & T. Kuwamoto (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 87-9
 Chemical studies on the ocean: Part 82. Chemical studies on the seaweeds.
 Quantitative determination of beryllium in seaweeds

Analytical method and some results.

- M
61-00136
- Ishibashi, M. et al. (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 91-4
 Chemical studies on the ocean: Part 83. Chemical studies on the seaweeds.
 Quantitative determination of strontium in seaweeds

Analytical method and some results.

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- Uda, M. & M. Ishino** (1960)
Rec. oceanogr. Wks Jap., Spec. No. 4 : 59-72
 Researches on the currents of Kuroshio
- Hydrography in the polar frontal zone east of Japan during late June 1958, and in the region south of Shikoku during late March 1959.
- M
61-00138
- Takenouti, Y. & M. Yasui** (1960)
Rec. oceanogr. Wks Jap., Spec. No. 4 : 55-7
 On the short period variations of oceanographical conditions in the Kuroshio region: preliminary report
- BT observations in investigation of the thermocline.
- M
61-00139
- Habe, T.** (1960)
Rec. oceanogr. Wks Jap., Spec. No. 4 : 39-51
 Pelecypod shell remains in Tanabe Bay, Wakayama Prefecture
- Station list showing depth, bottom temperature and nature, and list showing for each species the stations at which it was taken.
- MF
61-00140
- Fukuo, Y.** (1960)
Rec. oceanogr. Wks Jap., Spec. No. 4 : 29-38
 On the exchange of water and the productivity of a bay with special reference to Tanabe Bay (3)
- Calculation of the difference between specific gravity of sea water at 0°C from Knudsen tables and its value from direct measurement (designated "mass defect"), its attribution to consumption of dissolved materials by living organisms, observation of its distribution in the Bay in relation with run-off as a determinant of chlorinity.
- MF
61-00141
- Western Australia. Fisheries Department** (1960)
Mon. Serv. Bull. Fish. Dep. W. Aust., 9 (9)
- Notes on staff and their activities, and on regulations and legal actions; also notes on fishery developments, notably, in this issue, report on humpback whaling season and crayfish production; notes on recent fishery publications.
- F
61-00142
- Soong, M. K. & A. B. O. Merican** (1960)
Proc. Indo-Pacif. Fish. Coun., 8 (2) : 19-25
 The use of endrin as a piscicide in mining pools and fish ponds in Malaya
- Laboratory experiments to test toxicity of endrin, dieldrin, aldrin, derris root extract, and tea seed extract.
- MF
61-00143
- Djajadiredja, R. R. & R. Amidjaja** (1960)
Proc. Indo-Pacif. Fish. Coun., 8 (2) : 9-18
 Some observations on *Chanos* culture in fresh water
- Report of freshwater cultivation and comparison of results with those obtained from brackishwater ponds.

- M
61-00144
- Ishibashi, M., K. Emi & M. Mitooka** (1960)
Rec. oceanogr. Wks Jap., Spec. No. 4 : 95-110

Basic studies on the analysis and the separation of boric acid: second report. On the complex precipitate of barium boro manno saccharate and barium boro aravotrihydroxyglutarate

Experimental examination of the conditions of formation of two-component precipitates and of three-component precipitates and of the use of certain of these precipitates in qualitative estimate of boric acid.

- F
61-00145
- Moriya, K.** (1959)
J. Fac. Fish. Hokkaido Univ., Ser. 6, 14 (2) : 222-33
- An ecological study of temporary pools after thawing

Description of pond topography and its physical and chemical conditions ; in terms of which five distinct stages are noted ; faunal elements are listed, annual differences described, and food relations are reported.

- MF
61-00146
- Oguro, C.** (1959)
J. Fac. Fish. Hokkaido Univ., Ser. 6, 14 (2) : 261-4
- On the sinus glands in four species belonging to the Idotheidae (Crustacea, Isopoda)

Morphological characteristics of ordinary and accessory sinus glands.

- MF
61-00147
- Uchida, T. & Z. Nagao** (1959)
J. Fac. Fish. Hokkaido Univ., Ser. 6, 14 (2) : 265-81
- The life-history of a Japanese brackish water hydroid, *Ostroumovia horii*

Habitat is described briefly; external & internal morphology of polyp and Medusa is described for mature and embryonic forms; structure and location of nematocysts; distribution in Japan and taxonomic status.

- F
61-00148
- Ouji, M.** (1959)
J. Fac. Fish. Hokkaido Univ., Ser. 6, 14 (2) : 282-5
- On the nature and behaviour of secretory granules in hatching gland cells of the freshwater teleost, *Odontobutis obscura*

Morphological and cytochemical observations on the nature and behaviour of the secretory, or hatching, granules in cells forming the hatching gland in this sp.

- F
61-00149
- Ouji, M.** (1959)
J. Fac. Fish. Hokkaido Univ., Ser. 6, 14 (2) : 286-91
- Cytochemical studies on hatching gland cells in two fresh-water teleosts, *Odontobutis obscura* and *Zacco platypus*

Application of tests for proteins, nucleic acids, lipids, and polysaccharides.

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61-00150
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 3-7
 (Report of the oceanographic observations in the sea east of Tohoku District from February to March, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
- M
61-00151
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 8-16
 (Report of the oceanographic observations in the Okhotsk Sea and in the sea east of Tokohu District from May to June, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
- M
61-00152
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 17-23
 (Report of the oceanographic observations in the sea east of Honshu from January to February, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
- M
61-00153
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 24-32
 (Report of the oceanographic observations in the sea east of Honshu from May to June, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
- M
61-00154
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 33-9
 (Report of the oceanographic observations in the sea south of Honshu from February to March, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
- M
61-00155
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 40-7
 (Report of the oceanographic observations in the sea south of Honshu in May, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
- M
61-00156
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 48-56
 (Report of the oceanographic observations in the sea west of Japan from January to February, 1959). *Ni En*
 Tabulated physical-chemical and biological data.

- M
61-00157
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 57-64
 (Report of the oceanographic observations in the Japan Sea from June to July, 1959). *Ni En*

Tabulated physical-chemical and biological data.

- M
61-00158
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 65-72
 (Report of the oceanographic observations off Kyogamisaki and in the western part of Wakasa-Bay from February to June, 1959). *Ni En*

Tabulated physical-chemical and biological data.

- M
61-00159
- Ishibashi, M., S. Ueda & Y. Yamamoto (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 111-22
 Studies on the utilization of the shallow-water deposits (continued). On the lead content of the shallow-water deposits

Tabulation of analytical results and discussion of the relation between lead content, and geology and depth.

- M
61-00160
- Yamamoto, H. & Y. Imai (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 123-7
 Distribution of boron in Urado Bay, especially about the variations of boron content accompanied by the dilution of the sea water.

- M
61-00161
- Imanishi, N. (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 129-33
 Studies on inorganic chemical constituents in sea fishes: the chemical elements, and the relative quantities of calcium and phosphorus in *Katsuwonus pelamis*. Part 4

Distribution and relative quantities of calcium and phosphorus in this sp.

- M
61-00162
- Kume, T., T. Hisano & H. Izawa (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 135-8
 Studies on the direct manufacture of sodium hydroxide and other materials from sea water. Part 6. Effects of magnesium and calcium ions: a supplement.

- M
61-00163
- Takashima, S. (1960)**
Rec. oceanogr. Wks Jap., Spec. No. 4 : 139-46
 Studies on manufacture of magnesium hydroxide from calcium carbide and sea water or bitter brine, and its utilization—4. On the determination of pH of reaction medium and effect of size of calcium carbide.

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- Abe, T.** (1960) 61-00164
Rec. oceanogr. Wks Jap., Spec. No. 4 : 147-50
 Notes on fishes from the path of the "Kuroshiwo" with special reference to the adaptation or preference of some flying-fishes for cool water
- Adaptation or preference of *Cypsilurus pinnatibarbatus japonicus* and *Dan-ichthys rondeleti*—or a close ally—for cool water and annual changes in composition and abundance of fishes in the path of the "Kuroshiwo".
- M
- Hayashi, T., Y. Yamaguchi & T. Hanaoka** (1960) 61-00165
Rec. oceanogr. Wks Jap., Spec. No. 4 : 151-8
 Preliminary report on diurnal feeding activities of genus *Saurida*
- Weight and composition of stomach contents.
- M
- Takeshita, K. & H. Aikawa** (1960) 61-00166
Rec. oceanogr. Wks Jap., Spec. No. 4 : 159-64
 Biology of Japanese anchovy, *Engraulis japonica* (Houttuyn), in the Nankai region. 2
- Typing of ovaries on the basis of frequency distribution of ova diameter and estimation of egg production of each type.
- M
- Niino, H.** (1960) 61-00167
Rec. oceanogr. Wks Jap., Spec. No. 4 : 165-70
 Study of the natural radioactivity of bottom deposits—2.
- Analysis of bottom deposits and measurement of their radioactivity.
- M
- Hatai, K.** (1960) 61-00168
Rec. oceanogr. Wks Jap., Spec. No. 4 : 179-85
 Ground water and related phenomena observed along the southern coast of the Atsumi Peninsula, Aichi Prefecture
- M
- Hatai, K. & T. Iwai** (1960) 61-00169
Rec. oceanogr. Wks Jap., Spec. No. 4 : 187-95
 Some cylindrical and tabular structures from Wakayama Prefecture, Kii Peninsula
- Description and interpretation of these structures.
- M
- Sasaki, T., et al.** (1960) 61-00170
Rec. oceanogr. Wks Jap., Spec. No. 4 : 197-205
 Measurements of perpendicular and horizontal angular distributions of submarine daylight by means of a new remote control instrument
- Description of the instrument and report of results obtained in its use.

- M
61-00171
- Sato, M.** (1960)
Rec. oceanogr. Wks Jap., Spec. No. 4 : 207-12
Capped cylinder bucket
Description of this dredging instrument.
- FG
61-00172
- Armstrong, J. T., Jr.** (1960)
Thesis, Univ. of Michigan, USA, 191 p.
The dynamics of *Daphnia pulex* populations and of *Dugesia tigrina* populations as modified by immigration
DA 21 (1) : 375-6. There have been numerous experimental studies of effects of fishing on animal populations, but few of effects of complementary stress, immigration. Present research was concerned with the effects of immigration upon : (1) laboratory populations of the crustacean, *D. pulex*, maintained by a constant supply of the alga *Chlamydomonas reinhardtii*, and (2) laboratory populations of the flatworm, *D. tigrina*, maintained by a constant supply of brine shrimp.
- F
61-10173
- McClary, A.** (1960)
Thesis, Univ. of Michigan, USA, 108 p.
Growth and differentiation in *Craspedacusta sowerbii*
DA 21 (1) : 381. A study was made of asexual generation with particular emphasis on growth rates and morphological variation. Colonies of this coelenterate were grown from frustules collected in a tributary of the Huron River near Ann Arbor, Michigan. Polyps were fed brine shrimp nauplii.
- F
61-00174
- Chang, N. W.** (1959)
J. Otorhinolaryng., 7 (1) : 17-8
(Fish bile in the treatment of leech in the nose: a case report). *Ch*
HA29 (3) 1130.
- MF
61-00175
- Merle, A.** (1958)
Bull. Off. int. Epiz., 49 (7-8): 483-500
Les cysticercoses communes à l'homme et aux animaux (Cysticerciasis common to man and animals)
Briefly reviews occurrence of diphyllbothriasis in man and fish. *Diphyllbothrium* infection is most frequently encountered in areas around the Baltic and North Seas, the Danube delta and the Swiss and Italian lakes.
HA 29 (3) 1238.
- F
61-00176
- Chauhan, B. S. & G. Ramakrishna** (1959)
Indian J. Helminth., 10 (1) : 53-5
On the occurrence of fish mortality due to helminthic infestation by cestode cysts in a stocking tank at Nagpur (India)
HA 29 (3) 1244. Reports heavy mortality of fingerlings of *Labeo rohita*, *Cirrhina mrigala* and *Catla catla* caused by presence of minute cysts in various regions of the alimentary canal.

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- Holloway, H. L.** (1957) F
61-00177
Virginia J. Sci., 8 (4) : 296-7
 The distribution of *Neoechinorhynchus cylindratus* Van Cleave in North America.

HA 29 (3) 1245. Study of Westhampton Lake fishes finds optimal physiological conditions in a relatively small number of fishes when compared with the large number of fish—28 spp.—reported as definite hosts.

- Izyumova, N. A.** (1959) F
61-00178
Wiad. Parazyt., 5 (4-5) : 445-51
 (Parasitic diseases of fish dangerous to man in the area of barrage reservoirs).
Ru En Pl

HA 29 (3) 1247. Compares infections with *Diphyllbothrium latum* and *Opisthorchis felineus* in fish in 3 reservoirs along the Volga, which have been dammed off for different lengths of time. Exploitation for fish farming encourages human settlements along coast and this, coupled with an expected increase in infection over that in the river, presents conditions particularly favourable for the spread of infections.

- Mikailov, T. K.** (1959) F
61-00179
Izv. Akad. Nauk azerbaidzhan S.S.R., (2) : 79-83
 (The parasite fauna of Acipenseridae of the River Kura). *Ru*

HA 29 (3) 1249. 9 helminth spp. were found during 1953-55 by examination of 8 *Huso-huso caspicus* and 40 specimens of *Acipenser* from estuary.

- Mikailov, T. K.** (1957) F
61-00180
Izv. Akad. Nauk azerbaidzhan S.S.R., (9): 95-101
 (Some data on the distribution of ligulids in Azerbaidzhan waters). *Ru*

HA 29 (3) 1250. *Ligula intestinalis* and *Digramma interrupta* are widely distributed in Azerbaidzhan. In 1955, infection was observed in the River Kura in bleak and bream—mass infection—in *Varicorhinus capoeta sevangi*.

- Travassos, H.** (1959) F
61-00181
Actas Soc. Biol. Rio de J., 3 (4) : 1-2
 Nótula sobre o pacamão *Lophiosilurus alexandri* Steindachner, 1876 (Note on the catfish *Lophiosilurus alexandri* Steindachner, 1876)

HA 29 (3) 1251. Nematodes and trematodes were found in intestine, stomach and gall-bladder of 12% examined during a survey of fish from waterways in the basin of São Francisco River, Brazil.

- Grabda, E. & J. Grabda** (1959) F
61-00182
Wiad. Parazyt., 5 (4-5) : 459-62
 Zagadnienia parazytologiczne w rybactwie polskim (Parasitological problems in Polish fisheries). En

HA 29 (3) 1253. Recent work on parasites of fish in Poland incl. investigation of influence of ecological factors on the composition of the parasite fauna, the biology and pathology of worms, and the study of parasites in the Vistula and in many lakes. The parasite fauna of the Baltic and some water reservoirs, and various aspects of pathology, prophylaxis and treatment await investigation.

- Lubianov, I. P.** (1959) F
61-00183
Zool. Zh., 38 (11) : 1612-9
 (The benthal fauna of the lowland water reservoirs of the central Dnieper region to be flooded by the waters of the Dneprodzerzhinsk reservoir). Ru En

HA 29 (3) 1254. Fauna incl. various molluscs, crustaceans and leeches.

- Wieser, W.** (1959) M
61-00184
Lunds Univ. Årsskr., (5) : 111 p.
 Reports of the Lund University Chile Expedition 1948-49. 34. Free-living marine nematodes—4. General part

HA 29 (3) 1256. Ecological study of Chilean coastal waters, classifying them in a manner very similar to that used previously in the case of European marine nematodes. List of 500 papers on free-living marine nematodes, believed by the author to be a complete bibliography up to November, 1957.

- Jain, S. L.** (1959) F
61-00185
Parasitology, 49 (3-4) : 477
Neosprostonia, a new name for *Sprostonia* Jain, 1959

HA 29 (3) 1322. Genus of fresh-water Tetraonchinae, *Sprostonia* Jain, 1959, is invalid since name is preoccupied by *Sprostonia* Bikhovski, 1957. Therefore renames genus *Neosprostonia*. Two other genera, *Bychowsyella* Akhmerov, 1952, and *Silondotrema* Tripathi, 1957, have almost identical generic characters with *Neosprostonia*. The two latter genera must be regarded as synonyms of *Bychowsyella* Akhmerov, 1952, which has priority.

- Coil, W. H.** (1960) F
61-00186
Proc. helm. Soc. Wash., 27 (1) : 39-41
 Studies on two gorgoderid cercariae from Oklahoma with the description of a new species

HA 29 (3) 1327. *Cercaria papillostoma* n.sp. from the gills of *Pisidium compressum*. Setate papillae of a second—unnamed—gorgoderid cercaria are described.

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- Iles, C. (1959) F
61-00187
Parasitology, 49 (3-4) : 478-504
 The larval trematodes of certain freshwater molluscs—I. The Furcocercariae
- HA 29 (3) 1329. 8 spp. of furcocercous Cercariae are recorded from fresh-water molluscs in Glamorganshire. 3 new spp. of pharyngeal, longifurcous, distome Cercariae are described. *Cercaria tetraglandis* n.sp. from *Planorbis corneus*, *C. Baracauda* n.sp. from *Lymnaea pereger* and *C. planorbida* n.sp. from *P. planorbis*. *C. vivacis* n.sp. from *Bithynia tentaculata* also described.
- Khalil, L. F. (1959) F
61-00188
J. Helminth., 33 (4) : 263-6
 On a new trematode, *Astiotrema sudanensis* sp. nov., from a freshwater turtle in the Sudan
- HA 29 (3) 1330. Previous reviews of *Astiotrema* are noted. *A. reniferum* is reported for the first time from the intestine of *Clarias lazera*. Key to 5 valid spp. of *Astiotrema* is given.
- Wootton, D. M. (1957) M
61-00189
Biol. Bull., Woods Hole, 113 (2) : 302-15
 Studies on the life-history of *Allocreadium alloneotenicum* sp. nov. (Allocreadiidae : Trematoda)
- HA 29 (3) 1334. Recovered from haemocoel of *Limnéphilus* sp. larvae in Cape Cod, Massachusetts. Natural and experimental infections showed that normal intermediate clam host was *Pisidium abditum*. Attempts to infect *Eucalia inconstans*, *Fundulus heteroclitus* and *Salvelinus fontinalis* with infected caddis fly larvae were unsuccessful.
- Golvan, Y. J. (1959) M
61-00190
Ann. Parasit. hum. comp., 34 (3) : 288-321
 Acanthocéphales du genre *Corynosoma* Lühe, 1904, parasites de mammifères d'Alaska et de Midway (Acanthocephala of genus *Corynosoma* Lühe, 1904, mammal parasites of Alaska and Midway)
- HA 29 (3) 1344. Discusses biology and systematics of genus, gives host-parasite list of the sp. found in birds and an account, together with a dichotomous key, of those found in marine mammals. Collection from marine mammals made by Rausch in Alaska, and incl. 2 new spp. is reported on. *C. alaskensis* n.sp., from the intestine of *Phocaena vomerina* from Hooper Bay; *C. rauschi* n.sp., from the intestine of *Monachus schauinslandii* from Midway Island.
- Rao, P. N. (1958) F
61-00191
Arch. Mus. nac., Rio de J., 46 : 33-84
 Studies on the nematode parasites of insects and other arthropods
- HA 29 (3) 1368. New records for India incl. *Pseudonymus hydrophili* (Galeb, 1878) Stiles & Hassall, 1905 from an aquatic beetle at Vizianagram.

- F
61-00192
- Nakase, M.** (1958)
Shikoku Acta med., 13 (4) : 494-506
 (Studies on the cystic larvae parasitic in crabs in Shikoku District—
 Report 1. *Paragonimus westermani*). Ni En

HA 29 (3) 1387. During the period from March 1953 to December 1956, 14 different kinds of fresh-water crabs, totalling 4,284 in number, all of them found in rivers in Shikoku Island, were examined for Metacercariae. 6 spp. occurred.

- F
61-00193
- Nakase, M.** (1958)
Shikoku Acta med., 13 (4) : 507-19
 (Studies on the cystic larvae parasitic in crabs in Shikoku District—
 Report 2. *Macrorchis spinulosus*, *Microphalloides japonicus*, and a kind of
Levinseniella). Ni En

HA 29 (3) 1388.

- F
61-00194
- Nakase, M.** (1958)
Shikoku Acta med., 13 (4) : 520-7
 (Studies on the cystic larvae parasitic in crabs in Shikoku District—
 Report 3. *Metacercaria shikokuensis* n.sp.) Ni En

HA 29 (3) 1389.

- F
61-00195
- Arnau Macias, L.** (1957)
Bull. World Hlth Org., 17 (3) : 496-7
 A new method of detecting parasitic organisms in drinking water

HA 29 (3) 1409. Technique for detecting parasitic organisms in water described. Consists of (1) filtering under pressure through an asbestos disc; (2) disintegrating the discs in 60 ml of sterile water; (3) filtering the residue so obtained through fine gauze; (4) centrifuging the filtrate at 1,000 r.p.m. in 15 ml tubes; (5) concentrating samples of the sediment by Faust's technique or with Artigas' modification.

- F
61-00196
- Miller, G. C.** (1959)
J. Parasit., 45 (5) : 539-42
 Studies on the genus *Homalometron* Stafford, 1904 (Trematoda:
 Lepocreadiidae), with a redescription of *H. armatum* (MacCallum, 1895)

HA 29 (3) 1452. Redescribes *H. armatum* (MacCallum, 1895) Manter, 1947 from 250 specimens collected from 3 host spp., *Aplodinotus grunniens*, *Lepomis humilis* and *L. microlophys*, from Louisiana. *H. pearsei* Hunger & Bangham, 1932, is shown to be synonymous with *H. armatum*.

- F
61-00197
- Hopkins, C. A.** (1959)
Parasitology, 49 (3-4) : 529-42
 Seasonal variations in the incidence and development of the cestode
Proteocephalus filicollis (Rud. 1810) in *Gasterosteus aculeatus* (L. 1766)

HA 29 (3) 1464.

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- Izyumova, N. A. (1958)** F
61-00198
Parazit. Sborn., 18 : 295-303
 (Oxygen content of a water reservoir as one of the factors influencing the biology of *Dactylogyrus solidus* and *D. vastator*). Ru En

HA 29 (3) 1496.

- Prost, M. (1959)** MF
61-00199
Wiad. Parazyt., 5 (4-5) : 453-8
 Wpływ czynników ekologicznych na faunę Monogenoidea u ryb (The influence of ecological factors on the Monogenoidea fauna of fishes). En

HA 29 (3) 1508. Following observations of fauna of Monogenoidea from fishes along the whole course of the Vistula, makes suggestions concerning the influence of ecological factors on these parasites. 2 out of 20 spp. examined, *Dactylogyrus crucifur* and *D. difformis*, were more frequent in water with a high salt content than otherwise, perhaps owing to the migration of their hosts into the sea.

- Björkenheim, G. (1957)** M
61-00200
Acta med. scand., 159 (6) : 433-7
 Neurotropic factors in the fish tapeworm

HA 29 (3) 1519. Extract of *Diphyllbothrium latum* was observed to have a marked neurotropic effect in clinical tests in three cases of pernicious anaemia.

- van den Broek, E. & P. Wensvoort (1959)** M
61-00201
Säugetierk. Mitt., 7 (2) : 58-61

On parasites of seals from the Dutch coastal waters and their pathogenity

HA 29 (3) 1521. Reports findings on post-mortem examinations of *Phoca vitulina*. In the alimentary canal *Porrocaecum decipiens* (Krabbe, 1878), *Contracaecum osculatum* (Rudolphi, 1802), *Cryptocotyle lingua* (Creplin, 1825), *Diphyllbothrium* sp. and some unidentified heterophyid trematodes were found. In the lungs and heart *Otostrongylus circumlitus* (Railliet, 1899), *Paraflaroides gymnurus* (Railliet, 1899), and *Skrjabinaria spirocauda* (Leidy, 1858).

- Saha, K. C., D. P. Sen & J. C. S. Gupta (1959)** F
61-00202
Sci. & Cult., 25 : 216-8

Note on the biochemical stratification in pond fisheries and their productivity

WPA 33 (11) 1982. It is concluded that in assessing the productivity of a fish-pond it is not sufficient to sample the water in the surface layers, but the extent of stratification of dissolved oxygen and carbon dioxide through the pond should be determined.

- MF
61-00203
- Cassie, R. M.** (1960)
N.Z.J. Sci., 3 : 26-50
Factors influencing the distribution pattern of plankton in the mixing zone between oceanic and harbour waters
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New Scient., 8 (202) : 833-4

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Evolutionary significance of presence of cellulose fibres in *Ciona* and other ascidians and also in aged human tissue.

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BA 35E (15) 40253. Determines, according to average differences of body weight and length in various seasons, approximate period of drying out, which is apparent from rapid decrease in number of individuals from higher age groups. Observations suggest that female chubs die out in summer months. In the males a great mortality of weak individuals occurs from autumn through winter until spawning period.

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Thesis, Univ. of Georgia, USA, 106 p.
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DA 20 (7) : 2976-7. The rate at which phosphorus flows through the *Modiolus demissus* Dillwyn population and the effect of this phosphorus pathway upon the salt marsh ecosystem were studied at Sapelo Island, Georgia.
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Thesis, Univ. of Georgia, USA, 135 p.
The role of two invertebrate populations, *Littorina irrorata* and *Orchelimum fidicinium*, in the energy flow of a salt marsh ecosystem
DA 20 (7) : 2979. Energy relationships of three components of a salt marsh on the Georgia coast were studied. Assimilation rates for the snail, *Littorina*.
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61-00293
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Thesis, Cornell Univ., USA, 233 p.
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DA 20 (8) : 2998-9. Four sub-alpine oligotrophic lakes near Old Forge, New York, were sampled twice a year from 1955 to 1957. All lakes were reclaimed with rotenone and restocked with brook trout, *Salvelinus fontinalis*—one lake also received rainbow trout, *Salmo gairdneri*. Reared from unselected wild eggs and two domestic stocks.

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The effects of sodium fluoride on carp and rainbow trout

DA 20 (8) : 3032-3.

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Thesis, The Univ. of Nebraska, USA, 189 p.
The growth and reproduction of *Chara* in a definable nutrient medium

DA 20 (8) : 3034-5.

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Thesis, Utah State Univ., USA, 97 p.
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DA 20 (8) : 3248. Flow in channels such as at the head-water of streams.

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Ford, T. B. (1959)
Thesis, Univ. of Illinois, USA, 162 p.
The distribution and ecology of fishes of Mississippi Sound

DA 20 (8) : 3439. Field study in summers of 1951, 1953, 1956 and early spring of 1956. Collections were made with shrimp trawls, beach seines, minnow seines, rotenone, hook and lines, and spears. Total lengths of all fish. Ecological conditions, such as temperature, salinity, turbidity, type of bottom, depth and vegetation were recorded.

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Takano, K. (1960)
Bull. Inst. océanogr. Monaco, (1178) : 23 p.
Sur la circulation générale convective dans les océans (On the general convective circulation in the oceans). En

Study of circulation induced by a wind stress and by a horizontal variation in density maintained at the surface of an infinitely long canal. The effect of the boundary conditions at the bottom is discussed.

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Results mar. Obsns, (24) : 289 p.
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61-00300

Gundersen, K. R. (1959)
Fiskeridir. Småskr., (7) : 17 p.
Merkeforsøk på brisling 1958 (Tagging experiments on sprat in 1958)

Description of tagging equipment and technique and a few notes on recoveries of sprat tagged in Norwegian waters.

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- Werner, B. (1958)**
Helgoländ. wiss. Meeresunters., 6 (2) : 137-70
 Die Verbreitung und das jahreszeitliche Auftreten der Antomeduse *Rathkea octopunctata* M. Sars, sowie die Temperaturabhängigkeit ihrer Entwicklung und Verbreitung (The distribution and seasonal occurrence of the anthomedusa *Rathkea octopunctata* M. Sars as well as the dependency on temperature of its development and distribution). En
- Ill. description, based on observations and measurements in its area of distribution, North Sea and adjacent waters, and experimental proof of the dependence of the essential phases of development and reproduction on the water temperature.
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Dtsch. FischZtg., 4 (10) : 289-91
 Bemerkungen zur Sprottfischerei 1957 (Remarks on sprat fisheries in 1957)
- Popular discussion on the causes of the large catches of *Clupea sprattus* in the Baltic in 1957.
- M
61-00303
- Anon. (1959)**
Dtsch. FischZtg., 6 (6) : 161-4
 Bericht über die 2. wissenschaftlich-wirtschaftliche Expedition an die westafrikanische Küste (Report on the 2nd scientific and commercial expedition to the coast of West Africa)
- Report on a publication by D.A.N. Probatow on a Russian expedition in 1958. In particular concerned with *Sardinella aurita*, and *Sardinops sagax ocellata*. Notes on the extension of the fishing areas. Fat contents of the fishes. Projects for catching.
- MF
61-00304
- Schäperclaus, W. (1959)**
Dtsch. FischZtg., 6 (6) : 176-9
 Grossversuche mit Streptomycin zur Bekämpfung der infektiösen Bauchwassersucht des Karpfens (Large scale experiments using streptomycine for the control of contagious ascites in carp)
- As resistance against chloronitrine may develop in controlling ascites, various antibiotics have been tested on their efficiency. Report on results using streptomycine in three ponds in the German Democratic Republic.
- F
61-00305
- Arndt, H. (1959)**
Dtsch. FischZtg., 6 (6) : 171-2
 Hechtbrut als Besatz (Pike fry for stocking)
- Report of a fisherman on recent experiences in transporting and releasing pike fry, *Esox lucius*.

M

Kessler, H. (1958)

61-00306

Kieler Meeresforsch., 14 (1) : 23-41

Eine mikrokryoskopische Methode zur Bestimmung des Turgors von Meeresalgen (A micro-kryoscopical method to determinate the turgor of marine algae)

Description of the apparatus, working method, possibilities of error, range of use. Method tested in following marine algae in Baltic, *Bryopsis plumosa*, *Chaetomorpha linum*, *Chara baltica*.

M

Schlieper, C. & R. Kowalski (1958)

61-00307

Kieler Meeresforsch., 14 (1) : 42-7

Ein zellulärer Regulationsmechanismus für erhöhte Kiemenventilation nach Anoxybiose bei *Mytilus edulis* L. (A cellular mechanism of regulation for increased gill ventilation after anoxybiosis in *Mytilus edulis* L.)

Mytilus edulis has been kept dry in the air for one to three days ; after this the activity of the gill filaments of gill fragments in ventilated sea-water has been checked.

M

Schwenke, H. (1958)

61-00308

Kieler Meeresforsch., 14 (1) : 11-22

Über die Salzgehaltsresistenz einiger Rotalgen der Kieler Bucht (On the salinity resistance of some red algae of the Kiel Bay)

Notes on experiments in aquaria with various degrees of salinity. Width of resistance, influence of temperature and light on tests. Spp. used: *Plocamium coccineum*, *Brongniartella byss*, *Phycodrys rubens*, *Polysiphonia urceolata*, *Membranoptera alata*, *Polysiphonia nigrescens*, *Antithamnion plumula*, *Delesseria sanguinea*, *Ceramium rubrum*.

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Christen, H. R. (1959)

61-00309

Schweiz. Z. Hydrol., 21 (1) : 19-108

Limnologische Untersuchungen im Hauserseegebiet (Limnological investigations in the region of Lake Hauser)

Notes on the chemical conditions and stratification of the heavy eutrophic lake. List of plankton organisms. 59 references. Description of plankton associations.

M

Predel, G. (1959)

61-00310

Dtsch. Fisch Ztg., 6 (7) : 232-7

Ergebnisse von Fangversuchen mit Langleinen auf Dorsch (Results of experiments using long-lines to catch cod)

Comparison of different types of hooks and lines for fishing *Gadus morhua* in the Baltic.

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Dtsch. Fisch Ztg., 6 (2) : 37-9
 Betrachtungen über die Gesamtanlandungen aus der Ostsee (Considerations on the total landings from the Baltic)
 Popular description of fisheries statistics of the Baltic.
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Dtsch. Fisch Ztg., 6 (2) : 33-7
 Die Fangmengen der Thune in Ostatlantik (The amount of tuna landed around the eastern Atlantic)
 Popular description of *Thynnus thynnus* fisheries in the eastern Atlantic based on the Yearbook of Fishery Statistics, FAO, Vol. 6, 1956.
- F
- Merla, G.** (1959) 61-00313
Dtsch. Fisch Ztg., 6 (7) : 210-3
 Gesichtspunkte zur Nahrungsaufnahme von K_0 und K_1 (Aspects on the food intake of K_0 and K_1)
 Describes weights and food analyses of one summer old *Cyprinus carpio* from ponds in central Germany.
- F
- Lieder, U.** (1959) 61-00314
Dtsch. Fisch Ztg., 6 (7) : 207-9
 Das Wachstum des amerikanischen Flusskrebsses in märkischen Gewässern (Growth of the American crayfish in waters of the March of Brandenburg)
 Reports on tagging and rearing experiments with *Cambarus affinis* in lakes of central Germany.
- F
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Dtsch. Fisch Ztg., 6 (7) : 202-6
 Standorttreue von Bachforellen (*Salmo trutta fario* L.) und Äsche (*Thymallus thymallus* L.) (Homing instinct of brown trout, *Salmo trutta fario* L., and greyling, *Thymallus thymallus*)
 Reports on recaptures of tagged *Salmo trutta fario* L. and *Thymallus thymallus* in a brook in the German Democratic Republic.
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Z. wiss. Zool., Bd. 163, 1, 2 : 65-167
 Comparative investigations on the morphology of the intestinal tract of Clupeidae
 Reports investigations on the intestines of 101 specimens: Clupeidae (46), Engraulidae (44), Dussimieriidae (9) and Dorosomatidae (2). Discusses morphology, growth, influence of alimentation and environmental factors and proportions of other internal organs.

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61-00317
- Lindner, A.** (1957)
Dtsch. Fisch Ztg., 4 (10) : 296-6

Die Bedeutung des marinen Planktons für den Fischfang (The importance of marine plankton in fisheries)

Popular discussion. Notes on results of stomach investigations in *Gadus morhua* of the western Barents Sea.

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- Zahn, R. K. et al.** (1959)
Naturwissenschaften, 46 (17) : 518

Über eine biologische Wirkung des Desoxyribonuclease I auf die Entwicklung befruchteter Eier von *Sphaerechinus granularis* (On the biological effects of desoxyribonuclease I on the development of fertilized eggs of *Sphaerechinus granularis*)

Short note on insemination of 30,000 eggs of *Sphaerechinus granularis*. Within a series the dishes contained 0 to 10×10^{-6} g desoxyribonuclease I—Worthington, cryst.—Determination of cell number in intervals.

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61-00319
- Klausewitz, W.** (1957)
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Barbus schneemanni und *Aplocheilichthys maculatus*, zwei neue Fische aus Ost-Afrika (*Barbus schneemanni* and *Aplocheilichthys maculatus*, two new species from East Africa)

Drawings and taxonomic characters of the 2 newly described spp.

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Bull. aquat. Biol., 1 (4)

Zur Kenntnis des Lebensraumes ostafrikanischer Cyprinodontinae der Gattung *Nothobranchius* (Contribution to the knowledge of the environment of East African Cyprinodontidae of the genus *Nothobranchius*)

Description of the biotope, chemical analysis of a water sample taken in July 1958 from the region of Beira, Portuguese East Africa.

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61-00321
- Wickler, W.** (1959)
Bull. aquat. Biol., 1 (5)

Über einige Beobachtungen Kunath's zum Kampfverhalten der Nannostomidi (On some observations by Kunath on the fighting behaviour of the Nannostomidi)

Supplement to a paper on *Nannostomus beckfordi aripirangensis* with further observations on *Nannostomus beckfordi beckfordi* Günther, *N. b. aripirangensis* Meinken, *N. marginatus* Eigenmann, *Nannobrycon eques* Steindachner.

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Fischwirt., 9 (9) : 261-4

Waschmittelhaltige Abwässer; Zelluloseabbau und Fischertrag in Fischteichen (Waste waters containing washing agents; decomposition of cellulose and yield of fish ponds)

Discusses the disadvantages of the use of waste water containing detergents in fish ponds.

- Mann, H.** (1959) F
61-00323
Fischwirt., 9 (5) : 126-8

Das Wachstum markierter und nicht markierter Karpfen (Growth of tagged and not tagged carp)

Feeding tests to establish whether tagging of carp with perlon filaments influences the growth.

- Halsband, E.** (1959) F
61-00324
Fischwirt., 9 (5) : 129-34

Die elektrische Wollhandkrabbensperre in der Eider (The electrical obstacle against mitten crab in the Eider River)

Reports on tests carried out with *Eriocheir sinensis* at the sluice of the Eider River in Schleswig-Holstein.

- Joseph, J. & H. Sendner** (1958) M
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Dtsch. hydrogr. Z., 11 (2) : 49-77

Über die horizontale Diffusion im Meer (On the horizontal diffusion in the sea)

In regions with mean radii varying from 10 to 1500 km, the diffusion of a substance initially concentrated to a point was studied. The solutions of given equations were compared with the observations of the nonstationary diffusion of radioactive matter, organic substance and the stationary diffusion of Mediterranean water of high salinity in the Atlantic Ocean. Spectrum of tidal turbulence computed for the North Sea.

- Rodewald, M.** (1958) M
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Dtsch. hydrogr. Z., 11 (2) : 78-82

Beiträge zur Klimaschwankungen im Meere. 10. Beitrag: Die Anomalie der Wassertemperatur und der Zirkulation in Nordpazifischen Ozean und an der Küste Perus im Jahre 1955 (Contributions to the climatic changes in the sea. Contribution No. 10: The anomaly of water temperature and circulation in the North Pacific and on the coast of Peru in 1955)

Association of anomalies of the sea surface temperature with a pronounced anomaly of atmospheric circulation; 30 years series of sea surface temperature observations from Puerto Chicama, Peru.

- F
61-00327
- Tack, E.** (1959)
Fischwirt, 9 (3) : 65-71
 Ergebnisse der Albaumer Leistungsprüfungen mit Forellen in den Jahren 1957 und 1958 (Results of the productivity tests in trout at Albaum during 1957 and 1958)
- Reports on growth rate of various samples of *Salmo irideus* from pond cultures and two hatcheries; marking of trout by clipping the fins.
- F
61-00328
- Anon.** (1959)
Fischwirt, 9 (3) : 71
 Cercarienbefall bei Forellen (Infection with cercaria in trout)
- Notes on infection of *Salmo irideus* and *Salmo trutta fario* from an artificial ake in northern Germany with metacercaria.
- F
61-00329
- Tack, E.** (1959)
Fischwirt, 9 (4) : 109
 Ergebnisse der Albaumer Leistungsprüfungen mit Forellen in den Jahren 1957-58 (Results of the productivity tests in trout at Albaum in 1957 and 1958)
- Co 61-00327. 600 *Salmo irideus* have been tested on their growth rate. Examples of the calculation of the scores are given.
- F
61-00330
- Pape, A.** (1959)
Fischwirt, 9 (4) : 93-101
 Intensivierung der Binnenfischerei durch Vorstrecken von Hechtbrut (Raising of the productivity of inland fisheries by feeding pike-fry in the hatchery)
- Describes tests with *Esox lucius* in round tanks.
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- Windt, H.** (1959)
Kieler Meeresforsch., 15 (1) : 84-8
 Beobachtungen über die Nahrungsaufnahme und das Verhalten der Seenelke *Metridium senile* L. (Observations on the reception of food and on the behaviour of the sea anemone *Metridium senile* L.)
- Describes condition of expansion, reactions to food, differences in the behaviour of individuals in the reception of food.
- MF
61-00332
- Lagerspetz, K. & A. Sirkka** (1959)
Kieler Meeresforsch., 15 (1) : 89-96
 Versuche über den Sauerstoffverbrauch von *Mytilus edulis* aus dem Brackwasser der finnischen Küste (Experiments on the rate of oxygen consumption of *Mytilus edulis* from the brackish water of the Finnish coast)
- Discusses transference of animals or tissues to sea water with salinities of 5, 15 and 30 per 1,000; relation between oxygen consumption and body size; experiments with different temperatures.

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- Willmann, C. (1959)**
Kieler Meeresforsch., 15 (1) : 97-104
 Zwei neue Milben aus dem Küstengrundwasser des Roten Meeres (Two new water mites from the coastal ground water of the Red Sea)

Description and detailed drawings of 2 new spp. and new genera of water mites: *RHODACAROIDES aegyptiacus* n.g.n.sp. and *DENDROUROPODA schulzi* n.g.n.sp.

- F
61-00334
- Engelhardt, W. (1958)**
Arch. FischWiss., 9 (3) : 203-22

Limnologische Untersuchungen im Walchensee in den Jahren 1950-58. II. Untersuchungen über die Litoralfauna des Walchensees Oberbayern und ihre Beeinflussung durch den Staubetrieb (Limnological investigations in Lake Walchen during 1950-58. II. Investigations on the litoral fauna of the Lake Walchen, Upper Bavaria, and on the influence exerted on it by the management of the dam)

Physiography of Lake Walchen, a dammed up lake in southern Germany. Lists algae observed, changes of the water-level by the working of the power station: litoral fauna, distribution of food animals for fishes in the biotope of the litoral and sublitoral zone, fauna of the profundal zone.

- MF
61-00335
- Lühmann, M. & H. Mann (1958)**
Arch. FischWiss., 9 (3) : 200-2

Wiederfänge markierter Elbaale vor der küste Dänemarks (Recaptures of tagged eels off the coast of Denmark)

Deals with the recapture of two silver eels, *Anguilla anguilla*, off the west coast of Denmark, previously tagged in the River Elbe, 250 km upstream.

- F
61-00336
- Klust, G. & H. Mann (1958)**
Arch. FischWiss., 9 (3) : 229-43

Die hemmende Wirkung synthetischer Waschmittel auf den Zelluloseabbau im Wasser (The inhibitory effect of synthetic washing agents on the decomposition of cellulose in water)

III. description of the degree of decomposition tested by determination of the strength of cotton yarns.

- F
61-00337
- Deufel, J. (1958)**
Arch. FischWiss., 9 (3) : 181-6

Untersuchungen über den Erreger der " Infektiösen Nierenschwellung und Leberdegeneration " der Forellen (Investigations on the virus of the " contaminating kidney swelling and liver degeneration " in trout)

Artificial contamination of 2-years old *Salmo irideus* to prove the identity of kidney swelling and liver degeneration.

Vásváhelyi, J. (1958)F
61-00338*Arch. FischWiss.*, 9 (3) : 187-99

Beiträge zur Bestimmung der Karpfenartigen mit Hilfe der Schlundknochen (Contribution to the discrimination of cyprinid fishes by means of the pharyngeal bones)

Ill. descriptions of the pharyngeal bones of 31 spp. of cyprinids.

Von Brandt, A. (1958)M
61-00339*Arch. FischWiss.*, 9 (3) : 244-65

Zur Knotenkonstanz von Fischnetzen (On the constancy of knots in fish nets)

Ill. description of two test methods referring to the contorting of the meshes with uneven load of the bars and to the slacking of knots.

Marre, G. (1958)M
61-00340*Arch. FischWiss.*, 9 (3) : 222-9

Rentabilitätsberechnungen von Betrieben der schleswigholsteinischen Kutterfischerei aus den Jahren 1955, 56, 57 (Calculation of the profitability of cutter fisheries in Schleswig-Holstein during 1955 to 57)

Investigates 50 inshore fisheries, incl. 30 shrimp fisheries in the Bay of Lübeck.

Schemainda, R. (1959)M
61-00341*Fischereiforsch.*, 2 (4/5) : 8-12

Temperaturbedingungen und Heringsverteilung auf den Fladen in der Periode von Mai-Oktober 1958 (Temperature conditions and distribution of herring on the Fladen-ground from May to October 1958)

Reports on measurements of temperature close to the ground on the Fladen-ground, North Sea; distribution of herrings based on experimental hauls and temperature of the sub-surface water.

Berner, M. (1959)M
61-00342*Fischereiforsch.*, 2 (4/5) : 5-8

Die Sassnitzer Dorschserträge der Jahre 1950-58 und die Fangaussichten 1959 in ihrer Abhängigkeit von biologischen, hydrographischen und fischereilichen Faktoren (The yields of cod on Sassnitz during 1950-58 and the catch promises in 1959 in their dependence on biological and hydrographical conditions and other factors of fishery)

Landing statistics of *Gadus morhua* in Sassnitz, German Democratic Republic, during 1950-58 and forecasts of catches in the Baltic for 1959.

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Kajewski, G. (1959) M
61-00343
Fischereiforsch., 2 (4/5) : 4-5

Untersuchung der fischereilichen Möglichkeiten an der westafrikanischen Küste (Investigations on the possibilities of fisheries along the coast of West Africa)

Report on the voyage of the fisheries research vessel 'Karl Liebknecht', German Democratic Republic, to the coast of western Africa, between 7 Mar. and 15 May 1959. Problems, route. Short hint on a great abundance of *Sardinella aurita* in the waters south of Taloradi.

Steleanu, A. (1959) F
61-00344
Forsch. Fortschr. dtsh. Wiss., 33 (4) : 97-9

Der Einfluss eines Sees auf das Strahlungsklima seiner Ufer (The influence of a lake on the conditions of irradiation of its shores)

Popular description of investigations carried out in the Lake Müggel, German Democratic Republic. Spectral regions about 350 mμ, 580 mμ, 730 mμ. Methods not described.

Klausewitz, W. (1957) MF
61-00345
Vivaristik, 12

Die Stellung der Systematik in der modernen Ichthyologie (The position of systematics in modern ichthyology)

Gives examples of the interrelationships between systematics, ecology, ethology and physiology; points out problems of the systematics in ichthyology.

Marcus, E. (1959) M
61-00346
Kieler Meeresforsch., 15 (1) : 117-9

Eine neue Gattung der Philinoglossacea (A new genus of the Philinoglossacea)

New gastropod genus discovered in the coral sands of Ghardaqa, Red Sea. Ill. description of *SAPHA amicorum* n.g.n.sp.

Banse, K. (1959) M
61-00347
Kieler Meeresforsch., 15 (1) : 113-6

Fabricia acuseta n.sp., *Fabricia ghardaqa* n.sp. und *Oriopsis armandi* (Claparede) aus dem Roten Meer (Sabellidae, Polychaeta) (*Fabricia acuseta* n.sp., *Fabricia ghardaqa* n.sp. and *Oriopsis armandi*—Claparede—from the Red Sea, Sabellidae, Polychaeta)

Describes new spp.

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Krauss, W. (1959)

61-00348

Kieler Meeresforsch., 15 (1) : 3-10

Theorie der internen Mitschwingungswellen (The theory of internal cooscillating waves)

CR 60-0757. Concerns especially the question of free internal waves—Fjeldstad's equation—the good results of a forced oscillation, and the effect of tide producing forces on the period of internal tidal waves and on the wavelength.

M

Krey, J. (1959)

61-00349

Kieler Meeresforsch., 15 (1) : 17-28

Über den Gehalt an gelöstem anorganischen Phosphor in der Kieler Förde 1952-1957 (On the contents of dissolved organic phosphorus in the Bay of Kiel, 1952-1957)

Reports on annual changes in the contents of inorganic P-, P as a minimum factor, accumulation of phosphorus.

M

Schwenke, H. (1959)

61-00350

Kieler Meeresforsch., 15 (1) : 34-50

Untersuchungen zur Temperaturresistenz mariner Algen der westlichen Ostsee. 1. Das Resistenzverhalten von Tiefenrotalgen bei ökologischen und nicht ökologischen Temperaturen (Investigations on the temperature resistance of marine algae of the western Baltic. 1. The modes of resistance of deep living red algae under ecological and not ecological temperature conditions)

Checks resistance to temperatures of the Rhodophyceae *Delesseria sanguinea* and *Phycodrys sinuosa* of the Bay of Kiel.

M

Schultz, K. (1959)

61-00351

Allg. FischwirtschaftZtg., 11 (39/40) : 26-30

Neuartige Thunfischangel in der Elektrofischerei (A new tackle for tunas in electro-fishing)

A new tackle developed by Atlas Inc. Mode of action, principles of the diagram of connections.

M

Anon. (1959)

61-00352

Allg. FischwirtschaftZtg., 11 (39/40) : 36

Heckfänger als Forschungsschiffe (Stern trawler as research vessels)

Some technical notes on the new French research vessel 'Thalassia'. Report on Portuguese projects of a research vessel.

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- MF
61-00353
- Anon.** (1959)
Allg. FischwirtschaftZtg., 11 (39/40) : 5-6
Die 3. Kopenhagener Fischerei-Messe (The 3rd Copenhagen fisheries fair)
Deals in particular with the motors, engines, nets, fishing boats and novelties shown at the fair.
- G
61-00354
- Quick, H. F.** (1958)
Trans. N. Amer. Wildl. Conf., (23) : 426-42
Estimating the effects of exploitation by life tables
WR (95) : 20.
- G
61-00355
- Sachs, R.** (1959)
Toxicol. appl. Pharmacol., 1 (2) : 203-27
Life table technique in the analysis of response-time data from laboratory experiments on animals
WR (95) : 21.
- X
61-00356
- Matsumoto, J. J.** (1958)
Bull. Jap. Soc. Sci. Fish., 23 (12) : 775-81
On purified M-actomyosin of squid muscle
- X
61-00357
- Uchiyama, H. & K. Amano** (1958)
Bull. Jap. Soc. Sci. Fish., 23 (11) : 716-22
The mechanism of the slime formation on sugared kamaboko—1.
- F
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- Liebmann, H.** (1959)
Fischwirt., 9 (3) : 72-5
Über die Giftigkeit von Abwässern der Kohle- und Eisenindustrie auf Fische (On the toxicity of industrial waste waters of the coal and iron industry on fishes)
Short survey of the literature and results of research.
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A study of the coastal edge.

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 Note sur l'existence d'encoches fossiles de corrosion marine dans la baie des Galions (extrême sud de Madagascar) et sur les variations récentes du niveau de la mer (Note on the existence of fossil notches of marine corrosion in the Bay of Galions, extreme south of Madagascar, and on the recent variations of the sea level)
 Description of the fossil notches.
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 Review of present knowledge and description of general features of reefs.
- M
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 Les récifs coralliens des îles Radama et de la baie Ramanetaka (Côte nord-ouest de Madagascar), étude géomorphologique et sédimentologique (Coral reefs of the Radama Islands and of the Bay of Ramanetaka, northwest coast of Madagascar, geomorphological and sedimentological study)
 Detailed description of coral reefs and related coastal forms and sediments of a small part of the northwestern coast of Madagascar.
- M
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- Menache, M.** (1958)
Mém. Inst. sci. Madagascar, Sér. F, 2 : 201-84
 Étude hydrologique de l'estuaire de Fascène à Nosy Bé (Madagascar) durant la saison des pluies 1956 (Hydrological study of the estuary of Fascène at Nosy Bé, Madagascar, during the rainy season of 1956)
 Results of observations of the penetration of tides in an estuary and mixing of waters in function of tides.
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Mém. Inst. sci. Madagascar, Sér. F, 2 : 285-342
 Copépodes parasites de mollusques à Madagascar (Copepods parasites of mollusks in Madagascar)
 Taxonomic study of 10 spp.
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 Recherches sur la faune interstitielle des sédiments marins et d'eau douce de Madagascar. 10. Deuxième contribution à la faune des nématodes des eaux interstitielles littorales de Madagascar (Research on the interstitial fauna of marine and fresh-water sediments of Madagascar. 10. Second contribution to the fauna of nematods of coastal interstitial waters of Madagascar)
 30 spp. are taxonomically described.

M

Blanc, M. & E. Postel (1958)

61-00390

Mém. Inst. sci. Madagascar, Sér. F, 2 : 367-76

Sur une petite collection de poissons de la Réunion (On a small collection of fishes of Reunion)

A list of spp. with notes on their distribution.

G

IFIPS (1960)

61-00391

Adliswil-Zurich, mimeo, IFIPS/5, 14 p.

Report on the First Council Meeting—Rome, June 16-17, 1960

Do 60-205 me.

M

Băcescu, M. (1960)

61-00392

Stud. Cercet. biol. (Biol. anim.), 12 (2) : 107-124Citeva animale necunoscute înca Marea Neagră și descrierea unor malacostracei noi (*Elaphognathia monodi* n.sp. și *PONTOTANAIS borceai* n.g.n.sp.) provenind din apele pontice prebosforice (Some as yet unknown animals of the Black Sea; description of two new malacostracans, *Elaphognathia monodi* n.sp. and *PONTOTANAIS borceai* n.g.n.sp., from the Black Sea waters near to the Bosphorus). Fr Ru

M

Caloianu-Iordăchel, M. (1960)

61-00393

Stud. Cercet. biol. (Biol. anim.), 12 (2) : 191-205Structure și funcțiile aparatului digestiv la nisetru (*Acipenser güldenstädti* Brandt) în primele etape ale dezvoltării postembrionare (Structure and functions of digestive apparatus of sturgeon, *Acipenser güldenstädti* Brandt) in the first stages of post-embryonic development). Fr Ru

M

Skolka, H. & A. Petran (1960)

61-00394

Stud. Cercet. biol. (Biol. anim.), 12 (2) : 175-80

Un caz interesant de "colorare" a apei superficiale a Mării Negre (An interesting local phenomenon of "coloration" of the surface waters of the Black Sea). Fr Ru

Brown colour, observed at Roumanian coast in 1958 attributed to protozoan *Mesodinium rubrum*. Description of two new forms of the sp., new to this sea.

F

Bănărescu, F. & M. Bichiceanu (1959)

61-00395

Stud. Cercet. biol. (Biol. anim.), 11 (1) : 59-67Un pește nou pentru fauna R.P.R.: *Leuciscus souffia agassizi* Cuvier et Valenciennes (A new fish for the Roumanian fauna: *Leuciscus souffia agassizi* Cuvier & Valenciennes). Fr RuIll. description of specimens from Săpînța. Distribution of this and other spp. of the subgenus *Telestes*.

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61-00396
Stud. Cercet. biol. (Biol. anim.), 11 (2) : 149-58
 Notă preliminară asupra hidroiedlor de pe coastele românești ale Mării Negre (Preliminary note on the hydroids of the Roumanian coast of the Black Sea). Fr Ru
 Describes 6 spp., 2 of them new to this area, *Campanularia angulata* and *C. repens*.
- Lupu, D.** (1959) MF
61-00397
Stud. Cercet. biol. (Biol. anim.), 11 (3) : 227-32
 Date comparative asupra anatomiei la: *Nassa (Cyclope) brusinai* și *Nassa (Cyclope) neritea*, gasteropode din Marea Neagră (Comparative data on the anatomy of *Nassa (Cyclope) brusinai* and *Nassa (Cyclope) neritea*, gastropods from the Black Sea). Fr Ru
- Anon.** (1959) MF
61-00398
Stud. Cercet. biol. (Biol. anim.), 11 (3) : 189-93
 Realizări în biologia animală în ultimii 15 ani (Results in animal biology in the past 15 years)
 Summarizes Roumanian work, incl. studies of aquatic spp.
- Elian, L.** (1959) M
61-00399
Stud. Cercet. biol. (Biol. anim.), 11 (3) : 195-204
 Considerații asupra sistematiei și biologiei chaetognatelor care se găsesc în apele românești ale Mării Negre (Considerations on the systematics and biology of chaetognates in Roumanian Black Sea waters). Fr Ru
 Study of specimens of *Sagitta setosa*—confused with *S. bipunctata*—and *S. euxina* and of their parasites *Contracaecum* and *Derogene* sp.
- Pór F.** (1959) M
61-00400
Stud. Cercet. biol. (Biol. anim.), 11 (4) : 347-68
 Harpacticoide noi (Crustacea, Copepoda) din mîlurile Mării Negre (New harpacticoides, Crustacea, Copepoda, from Black Sea beds). Fr Ru
 Describes and ill. spp. of families Cletodiidae and Laophontidae, incl. new spp. of *Haloschizopera* all from *Mytilus* and *Modiolus* beds.
- Feider, Z. et al.** (1958) M
61-00401
Stud. Cercet. biol. (Biol. anim.), 10 (2) : 105-28
 Branchiospinii la stavridul din Marea Neagră *Trachurus mediterraneus* (Steindachner) (The branchial spines in *Trachurus mediterraneus* (Steindachner) of the Black Sea). Fr Ru
 Stadal differences between juveniles and adults, also between sexes. Incl. specimens of giant race; Black Sea samples.

F

Dornescu, G. T., V. Santa & U. Pollingher (1958)

61-00402

Stud. Cercet. biol. (Biol. anim.), 10 (2) : 129-43

Anatomia și histologia rinichiului de crap (Anatomy and histology of the carp kidneys). Fr Ru

Study of *Cyprinus carpio*, comparison with other fishes.

F

Motelică, I. (1958)

61-00403

Stud. Cercet. biol. (Biol. anim.), 10 (4) : 353-61

Contribuții la studiul răspîndirii oligochetelor limicole în R.P.R. (Contribution to the study of distribution of aquatic oligochaetes in the Roumanian People's Republic). Fr Ru

Comparison by families, especially Naïdidae and Tubificidae.

F

Damian, A. (1958)

61-00404

Stud. Cercet. biol. (Biol. anim.), 10 (2) : 177-98

Cercetări hidrobiologice în conducta de apă a orașului Bacurești. Nota II. Cu privire specială asupra copepodelor (Hydrobiological studies of the water supply system of Bucharest City. Note 2. Special consideration of copepods). Fr Ru

F

Bușnita, T. & A. Cristian (1958)

61-00405

Stud. Cercet. biol. (Biol. anim.), 10 (4) : 299-319Variația carasului argintiu (*Carassius auratus gibelio* (Bloch) în apele românești și cauzele care o determină (Variations of goldfish *Carassius auratus gibelio* (Bloch) in Roumanian waters. Determined causes). Fr RuStudy of artificial hybrids of *Carassius* and *Cyprinus carpio*.

M

Băcescu, M. (1958)

61-00406

Stud. Cercet. biol. (Biol. anim.), 10 (4) : 321-34Pycnogonide noi pentru fauna Mării Negre: *Anoplodactylus petiolatus* (Kr.), *A. stocki* n.sp. și *Callipallene brevirostris* (John.) (Pycnogonids new to the fauna of the Black Sea: *Anoplodactylus petiolatus* (Kr.), *A. stocki* n.sp. and *Callipallene brevirostris* (John.)). Fr Ru

F

Yashouv, A. (1960)

61-00407

Tech. Pap. G.F.C.M., 6 (1) : 5 p.

Fish production in the Israeli waters and ways to its increase. Fr

Do 60-053me. Lake Tiberias, barrage lakes and artificial fish ponds are kept distinct from a productivity point of view. In the latter, production of 4,000 kg per hectare may be achieved.

X

Sepic, K. (1960)

61-00408

Tech. Pap. G.F.C.M., 6 (2) : 5 p.

The wooden fish box used in Yugoslavia. Fr

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- M
61-00409
- Fodera, V.** (1960)
Tech. Pap. G.F.C.M., 6 (3) : 86 p.
 La madrague sicilienne de course (The Sicilian tuna trap). En
 Do 60-053me. Describes material required for tuna trap. Outlines preparation of nets, various steps concerning the setting up and the operation of trap.
- M
61-00410
- Sara, R.** (1960)
Tech. Pap. G.F.C.M., 6 (4) : 27 p.
 Observations systématiques sur la présence du thon dans les madragues siciliennees (Systematic observations on the presence of tuna in the Sicilian tuna traps). En
 Do 60-053me. Draws up a theory on the physico-chemical conditions which determine the presence of tuna based on data obtained in the Sicilian tuna traps during fishing period in 1958-1959 and 1960.
- F
61-00411
- Sommani, E.** (1960)
Tech. Pap. G.F.C.M., 6 (5), 7 p.
 Le *Salmo marmoratus* Cuv. dans l'Italie du nord (*Salmo marmoratus* Cuv. in northern Italy). En
 Do 60-053me. Examines present distribution of *S. marmoratus* and infers that presence is connected with nature of ground which forms catchment zone of each stream.
- M
61-00412
- Mužinić, R.** (1960)
Tech. Pap. G.F.C.M., 6 (6) : 12 p.
 On the formation of rings and growth zones on sardine scales (*Sardina pilchardus* Walb.). Fr
 Do 60-053me. Account of observations on formation of rings and new growth zones on scales of young specimens in aquarium tanks. Compares with sardines from natural habitat, whenever possible.
- M
61-00413
- Galea, J. A.** (1960)
Tech. Pap. G.F.C.M., 6 (7) : 7 p.
 The "Kannizzati" fishery. Fr
 Do 60-053me. Describes gear, operation, and costs and returns. Gives landing statistics and compares "Kannizzati" fishery with others.
- M
61-00414
- Gottlieb, E.** (1960)
Tech. Pap. G.F.C.M., 6 (8) : 10 p.
 On the selection of *Upeneus moluccensis* and *Mullus barbatus* by trawl cod-ends in the Israeli fisheries. Fr
 Do 60-053me. Advocates that populations of *Upeneus moluccensis* Bleeker and of *Mullus barbatus* Linné have been over-exploited along the continental shelf of Israel. Recent investigations on the dynamics of these spp. have led to the conclusion that the mesh size of the trawl cod-ends should be changed in order to obtain a better yield.

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Hure, J. (1960)

M
61-00415

Tech. Pap. G.F.C.M., 6 (9) : 3 p.

Contribution à la connaissance de la ponte de la sardine et du maquereau au large de l'Adriatique moyenne (Contribution to the knowledge of the spawning of sardine and mackerel off the middle Adriatic coast). Fr

Do 60-053me. Presents data on appearance and distribution of eggs during January 1959 and 1960, defines spawning area of mackerel and reports the existence of a new, intensive spawning area for sardine.

Lisac, H. (1960)

X
61-00416

Tech. Pap. G.F.C.M., 6 (10) : 12 p.

The liquid ensilage of Mediterranean sardines for animal feeding. Fr

Gamulin, T. & D. Zavodnik (1960)

M
61-00417

Tech. Pap. G.F.C.M., 6 (11) : 3 p.

Spawning of the sardine (*Sardina pilchardus* W.) off the west coast of Istria (northern Adriatic). Fr

Do 60-053me. Gives results with regard to the appearance of sardine eggs in plankton during a period from 1956-1960. States that spawning takes place from November to December, and April to May. Lack of eggs during winter is caused by hydrographical conditions.

Acara, A. (1960)

X
61-00418

Tech. Pap. G.F.C.M., 6 (12) : 2 p.

Some data on semi-preserves in Turkey. Fr

Ben-Yami, M. (1960)

M
61-00419

Tech. Pap. G.F.C.M., 6 (13) : 6 p.

The use of machine-made net webbing for Mediterranean trawl nets. Fr

Do 60-053me. Describes certain methods for simple tailoring of net-sections and of standardizing of machine-made netting. A detailed plan of an Italian-type trawl net, made of shape-cut, machine-made netting, is incl.

Zupanovic, S. (1960)

M
61-00420

Tech. Pap. G.F.C.M., 6 (14) : 6 p.

Influence des facteurs physiques sur les déplacements des poissons (Influence of physical factors on the movements of fishes). En

Do 60-053me. Discusses to what extent the alteration of hydrological facies operate upon the movements of the populations of benthic fishes in the middle Adriatic channels.

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- M
61-00421
- Zupanovic, S.** (1960)
Tech. Pap. G.F.C.M., 6 (15) : 6 p.
 Contribution à la connaissance de la biologie de *Merluccius merluccius* L. dans l'Adriatique moyenne (Contribution to the knowledge of the biology of *Merluccius merluccius* L. in the middle Adriatic). En
- Do 60-053me. Gives observations on large, medium and small hake, in the middle Adriatic.
- MF
61-00422
- Morovic, D.** (1960)
Tech. Pap. G.F.C.M., 6 (16) : 3 p.
 La distribution géographique du genre *Mugil* sur la côte orientale de l'Adriatique (The geographical distribution of the genus *Mugil* on the eastern Adriatic coast). En
- Do 60-053me. Studies distribution of the Mugilidae on the eastern Adriatic coast. Indicates main fishing places, as well as % of spp. studied.
- M
61-00423
- Morovic, D.** (1960)
Tech. Pap. G.F.C.M., 6 (17) : 5 p.
 Contribution à la connaissance de la nutrition du thon rouge (*Thunnus thynnus* L.) dans l'Adriatique, d'après les prises faites à la senne tournante (Contribution to the knowledge of the nutrition of blue-fin tuna, *Thunnus thynnus* L., in the Adriatic from fishes caught with ring nets). En
- Do 60-053me. Gives preliminary data. Proportion of various spp. found in the stomachs has been determined.
- M
61-00424
- Matta, F.** (1960)
Tech. Pap. G.F.C.M., 6 (18) : 5 p.
 Preliminary note on the catching of sole by the "rapido" trawl net. Fr
- Do 60-053me. Compares two populations of soles captured by means of a new type of trawl net.
- X
61-00425
- Lopez Costa, R.** (1960)
Tech. Pap. G.F.C.M., 6 (19) : 15 p.
 Examen technique sanitaire des semi-conserves de poisson en général (Technical and sanitary investigation of semi-preserves and fish preserves in general). En
- M
61-00426
- Oliver, M.** (1960)
Tech. Pap. G.F.C.M., 6 (20) : 3 p.
 Rapport au sujet de la carte de pêche des Baléares et de la zone du cap Creus (Report on the fishing chart of the Balearic Islands and the Cap of Creus zone). En
- Do 60-053me. Comments on the fishing chart of the Balearic Islands and the Cap of Creus zone.

M

Spain. Instituto Español de Oceanografía (1960)

61-00427

Tech. Pap. G.F.C.M., 6 (21) : 9 p.

Variations saisonnières dans la composition de la sardine méditerranéenne et atlantique (Seasonal variations in the composition of the Mediterranean and Atlantic sardine). En

Do 60-053me. Studies seasonal variations of the amount of fat in the Mediterranean and Atlantic sardine, *Sardina pilchardus* Walb.

F

Merlo, S. (1960)

61-00428

Tech. Pap. G.F.C.M., 6 (22) : 8 p.

Nouvelles recherches sur la production de la pêche dans le lac de Garde (New research on the fish production in the Lake of Garda). En

Do 60-053me. Considers recent variations in catches of certain spp. and discusses the possible causes of these variations.

M

Mozzi, C. & A. Duo (1960)

61-00429

Tech. Pap. G.F.C.M., 6 (23) : 11 p.

Observations sur les sardines (*Sardina pilchardus* Walb.) de la haute Adriatique débarquées à Cnoggia en 1958 (Observations on the sardines, *Sardina pilchardus* Walb., from the upper Adriatic, landed at Chioggia in 1958). En

Do 60-053me and Co 59-0964. Concerns particularly study of length, growth and average number of vertebrae.

M

Alfirevic, S. (1960)

61-00430

Tech. Pap. G.F.C.M., 6 (24) : 9 p.

Quelques données sur la carte géologique des fond chalutables dans les chenaux de l'Adriatique moyenne (Some data on the geological chart of the trawling ground in the middle Atlantic channels). En

Do 60-053me. Gives results of study of sediments found on the trawling grounds; summarizes sedimental data obtained.

F

Maldura, C. (1960)

61-00431

Tech. Pap. G.F.C.M., 6 (25) : 6 p.

Recherches préliminaires sur l'action de l'alkyl-aryl-sulfonate sur la truite arc-en-ciel (*Salmo irideus*) (Preliminary research on the action of sulfonate-alkyl-aryl on *Salmo irideus*). En

Do 60-053me. Reports preliminary experiments and enumerates the conclusions he has been able to reach.

F

Sarig, S. (1960)

61-00432

Tech. Pap. G.F.C.M., 6 (26) : 10 p.

Carp disease, their prevention and treatment. Fr

Do 60-053me. Describes development of various fish diseases under intensive fish culture regime in Israel. Important diseases of carp are detailed as to extent of damage and methods of control. Presents list of publications on this subject.

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- Demir, M. & N. Demir** (1960) M
61-00433
Tech. Pap. G.F.C.M., 6 (27) : 7 p.
 Contribution to the knowledge of the eggs of the common bonito (*Sarda sarda* Bloch). Fr
- Do 60-053me. Account of research on eggs obtained from gonads of a female in June 1956 and taken from plankton of the Black Sea in June 1957, and of the Sea of Marmara in June 1959. Ill.
- Demir, M.** (1960) M
61-00434
Tech. Pap. G.F.C.M., 6 (28) : 2 p.
 Note on *Germo alalunga* Gml. and *Euthynnus alletteratus* Raf. in the Sea of Marmara. Fr
- Do 60-053me. States that the fish considered *Germo alalunga* is in fact *Euthynnus alletteratus*.
- Demir, M. & N. Demir** (1960) M
61-00435
Tech. Pap. G.F.C.M., 6 (29) : 2 p.
 Note on the sardine (*Clupea pilchardus* Walb.) and its reproduction in the Sea of Marmara. Fr
- Do 60-053me. Account of observations on sardine populations in the Dardanelles in September and October 1959; spawning areas and conditions of reproduction.
- Aksiray, F.** (1960) F
61-00436
Tech. Pap. G.F.C.M., 6 (30) : 4 p.
 Fish production in Turkish inland waters. Fr
- Do 60-053me. Calculates production capacities of lakes according to unofficial statistics and estimates minimum production that could be obtained through improvement and preservation.
- De Angelis, R.** (1960) MF
61-00437
Tech. Pap. G.F.C.M., 6 (31) : 5 p.
 Production de poisson dans les eaux intérieures italiennes (Fish production in the Italian inland waters). En
- Do 60-053me. Gives information on the fish production of Italian streams, lakes and lagoons, and on its distribution.
- Grubisic, F.** (1960) M
61-00438
Tech. Pap. G.F.C.M., 6 (32) : 4 p.
 Length of purse-seine and size of sardine schools. En
- Do 60-053me. Deals with the problem of size of sardine schools, as the most important element in determination of purse-seine length.

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- M
61-00439
- Buljan, M. (1960)**
Tech. Pap. G.F.C.M., 6 (33) : 11 p.
 Some results of fertilization experiments carried out in Yugoslav marine bays. Fr

Do 60-053me. A short survey of theoretical conditions providing the basis of the new method of fertilization of marine bays. Gives results of fertilization of some marine bays lying on the Yugoslav coast of the Adriatic; advocates that the method is feasible and can be applied for the purpose of commercial exploitation.

- M
61-00440
- Vucetic, T. (1960)**
Tech. Pap. G.F.C.M., 6 (34) : 2 p.
 Abundance of zooplankton compared with sardine catch in the central part of the eastern Adriatic. Fr

Do 60-053me. Account of observations from 1951 to 1960. Presents data on abundance of zooplankton and on sardine catches.

- M
61-00441
- Italy. Ministero della Marina Mercantile. Direzione Generale della Pesca e del Demanio Marittimo (1960)**
Tech. Pap. G.F.C.M., 6 (35) : 3 p.
 Comportement du chalut pour la pêche des soles (Behaviour of the trawl net for the catching of soles). En

Do 60-053me and Ab 61-00460.

- M
61-00442
- Demirhindi, U. (1960)**
Tech. Pap. G.F.C.M., 6 (36) : 9 p.
 Nutrition of the sardine (*Sardina pilchardus* Walb.). Fr

Do 60-053me. Studies correlation between stomach contents of adult *Sardina pilchardus* Walb. and plankton collected on the fishing grounds. Lists identified phyto and zooplanktonic organisms.

- M
61-00443
- Elroi, D. & B. Komarovsky (1960)**
Tech. Pap. G.F.C.M., 6 (37) : 10 p.
 On the possible use of the ascidian *Ciona intestinalis* from fouling as a source of vanadium, cellulose and other products. Fr

Do 60-053me. Discusses possible uses of these products.

- M
61-00444
- Farina, L. & F. Bourgois (1960)**
Tech. Pap. G.F.C.M., 6 (38) : 21 p.
 L'amélioration des techniques de la pêche au feu (Improvement of the fishing with lights techniques). En

Do 60-053me. Describes results of experiments on fishing with lights, incl. underwater fishing lamps for fish attraction and echo-sounding for fish detection.

REFERENCES

- M
61-00445
- Ben Tuvia, A.** (1960)
Tech. Pap. G.F.C.M., 6 (39) : 6 p.
 Catch per unit of effort of *Sardinella aurita* along the coast of Israel during the years 1950-1959. Fr
- Do 60-053me. Calculates catch per unit of effort for period 1950-1959 as the average catch taken by one light fishing unit during one successful fishing night. Presents year-to-year and month-to-month fluctuations.
- M
61-00446
- Chirardelli, E.** (1960)
Tech. Pap. G.F.C.M., 6 (40) : 6 p.
 La pêche des mollusques céphalopodes et leur importance biologique et économique (Fishing of cephalopodes molluscs and their biological and economic importance). En
- Do 60-053me. Describes main gear types and discusses the incidence on the stock.
- MF
61-00447
- White, J. H., A. Abramov & B. Komarovsky** (1960)
Tech. Pap. G.F.C.M., 6 (41) : 2 p.
 Problems in the use of plastics in fishing. Fr
- Do 60-053me. Describes problems arising from the use of plastic nets and accessories; states that local solutions have been found for some, while others await further investigation.
- M
61-00448
- Komarovsky, B. & T. Edelstein** (1960)
Tech. Pap. G.F.C.M., 6 (42) : 5 p.
 Preliminary survey of the microflora and microfauna occurring on experimental anti-fouling panels in the Kishon Harbour. Fr
- Do 60-053me. Account of survey of main groups of microscopic animals and plants occurring on experimental panels. Considers the neritic and sessile character of some of these organisms. Lists organisms.
- M
61-00449
- Maurin, C.** (1960)
Tech. Pap. G.F.C.M., 6 (43) : 15 p.
 Campagne du 'Président Theodore Tissier' sur les côtes d'Algérie, Novembre 1959-Février 1960 (Campaign of the 'President Theodore Tissier' off the Algerian coasts, November 1959-February 1960). En
- Do 60-053me. Studies the trawl fishing off Algeria and in the adjacent waters from the western Moroccan coast and the Cape of St. Vincent to the Straights of Sicily. Gives position of trawling grounds beyond the 300 m line, lists various spp. and indicates quantities
- M
61-00450
- Seaccini, A.** (1960)*
Tech. Pap. G.F.C.M., 6 (44)
 Sur le phototropisme des thons (On the phototropism of tunas)

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- M
61-00451
- Scaccini, A. (1960)***
Tech. Pap. G.F.C.M., 6 (45)
 Considérations sur la distribution et les déplacements des thons en Adriatique (Consideration on the distribution and movement of tunas in the Adriatic)
- MF
61-00452
- Gomez Baeza, J. (1960)**
Tech. Pap. G.F.C.M., 6 (46) : 11 p.
 L'emballage du poisson frais en Espagne et son utilisation possible comme unité de mesure pour une statistique de production de rendement et de consommation (The possibilities of using fish packing cases as a standard unit for the compilation of statistics on production, output and consumption in Spain). En
- Do 60-053me. Examines possibility of using fish packing cases as a standard unit for compiling statistics on production and on output per fishing unit or fishing zone. Concludes that a general standardization is necessary.
- M
61-00453
- Atli, M. & F. Erman (1960)**
Tech. Pap. G.F.C.M., 6 (47) : 2 p.
 On the biology of sardines (*Sardina pilchardus* Walb.). Fr
- Do 60-053me. Preliminary report giving an account of study on biology of sardines, with special reference to their age composition, growth rate, gonad development, spawning period, and stock fluctuation, based on the samples collected mainly at Canakkale, from Feb. 1959 to Jul. 1960.
- M
61-00454
- Bas, C. (1960)**
Tech. Pap. G.F.C.M., 6 (48) : 2 p.
 La carte de pêche de la Costa-Brava (The fishing chart of Costa-Brava). En
- Do 60-053me. Gives data on *Aristeus antennatus*, *Merlangus poutassou* and *Aristeomorpha foliacea*.
- F
61-00455
- Volk, S. & D. Vesel (1960)**
Tech. Pap. G.F.C.M., 6 (49) : 4 p.
 La truite marbrée (*Salmo marmoratus* Cuv.) et sa reproduction artificielle (The marble trout *Salmo marmoratus* Cuv., and its artificial reproduction). En
- Do 60-053me. Account of practical results obtained in Yugoslavia.
- MF
61-00456
- Arena, P. (1960)**
Tech. Pap. G.F.C.M., 6 (50) : 1 p.
 Aperçu préliminaire sur le " Stagnone " de Marsala et ses possibilités pour l'exploitation et la pêche (Brief account of the " Stagnone " of Marsala and its possibilities for fisheries development). En
- Do 60-053me. Gives a brief account of the hydrobiological conditions and explains the possibilities of improving some of the conditions in this basin, and its adequate utilisation for pond culture and fisheries.

REFERENCES

- F
61-00457
- Aksiray, F.** (1960)
Tech. Pap. G.F.C.M., 6 (51) : 7 p.
About sudak (*Lucioperca sandra* Cuv. et Val.) introduced into some of the lakes of Turkey. Fr
- Do 60-053me. Account of introduction of this sp. into Mermere and Eğridir lakes and its improving effect on yearly catch of other commercially important spp.
- MF
61-00458
- GFCM** (1960)
Rome, FAO
Working documents—6th session. En En Fr
- Do 60-053me. Contains working papers of Marine resources, Production, Utilization, Inland waters and Economics and statistics committees. Documents contain information collected by special rapporteurs and by Secretariat following the recommendations of executive committee. Under miscellaneous papers incl. Report by FAO Fisheries Division, Biology Branch, to the GFCM on activities 1959/60.
- MF
61-00459
- GFCM** (1960)
Rome, FAO
Agenda and notes—6th session. En Fr
- Do 60-053me. Incl. reports of the Executive Committee and Secretariat, on budget and notes, on rules of procedure, membership, liaison with other organizations, organization of work of the Council and its committees.
- M
61-00460
- Bini, G.** (Ed.) (n.d. 1960)
Mem. Dir. gen. Pesca, Roma, (2) : 32 p.
Ricerche sul comportamento in mare delle reti a strascico per sogliole (Behaviour of the trawl net for the catching of soles)
- Account of underwater observations on the behaviour of sole trawl; gives design of perfected gear.
- MF
61-00461
- Inter-American Conference on Agriculture, 5th, August 8-20, 1960, Mexico, D.F.** (1960)
OEA/Ser. K/II.5.1
Final act . . . En Es
- Do 60-138me. Contains chapter and resolution on importance of fisheries as food source; establishment of regional fishery research institute in Panama; improvement of fishery administration.
- MF
61-00462
- New South Wales. Laws, Statutes, etc.** (1960)
Govt Gaz., N.S.W., (75) : 1955.
Proclamation made under the fisheries and oyster farms act, 1935-1957 relative to the entrance waters of Tweed River, County of Rous.—18 May 1960.
- Prohibits the taking of fish by means of spears, spear guns and similar devices from 1 Sep. 1960 to 31 Aug. 1965.

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- MF
61-00463
- New South Wales. Laws, Statutes, etc. (1960)**
Govt Gaz., N.S.W., (66) : 1662
 Amendment of the regulations made under the fisheries and oyster farms act, 1935-1957.—3 June 1960
- Insertion of a new regulation on grading of prawns.
- MF
61-00464
- Queensland. Laws, Statutes, etc. (1960)**
Qd Govt Gaz., (43) : 934.
 Order under the fisheries acts, 1957-1959.—2 June 1960
- Prohibits from and after the date of publication in the Gazette the taking of any kind of fish in the waters described in the schedule thereto.
- MF
61-00465
- Western Australia. Laws, Statutes, etc. (1960)**
Govt Gaz. W. Aust., (63) : 2196
 Notice under the fisheries act, 1905-1956. F.D. 167/53.—24 June 1960
- Ad 60-9765. Lays down conditions in respect of fishing licences. Repeals notice F.D. 167/53 of 10 May 1960 under same act.
- MF
61-00466
- Western Australia. Laws, Statutes, etc. (1960)**
Govt. Gaz. W. Aust., (57) : 2022
 Proclamation under the fisheries act, 1905-1956. F.D. 166/21, Ex. Co. No. 1235. 30 June 1960
- Prohibits all persons from taking any fish by means of fishing nets in any of the portions of Western Australian waters specified in the schedule thereto from 1 Jul. 1960, until 30 Jun. 1965.
- MF
61-00467
- Western Australia. Laws, Statutes, etc. (1960)**
Govt Gaz. W. Aust., (60) : 2117
 Proclamation under the fisheries act, 1905-1956. F.D. 54/45, Ex. Co. No. 1296. 7 July 1960
- All portions of Western Australian waters defined in the schedule shall be closed against the use of fishing nets other than hand scoop nets for a period of five years as from date of publication of this proclamation in the gazette.
- M
61-00468
- Belgium. Laws, Statutes, etc. (1960)**
Monit. belge, (109) : 3364-5
 Arrêté royal du 21 mars 1960 réglant l'octroi de primes aux élèves des écoles de pêche ayant subi avec succès l'examen d'apprenti-mousse à la pêche (Royal order governing the grant of bonuses to students of fisheries schools having successfully passed the fishery ship's apprentice examination. 21 March 1960)
- With a view to encouraging young fishermen to pass examination provided for in royal order of 21 May 1958.

REFERENCES

- M
61-00469
- Belgium. Laws, Statutes, etc. (1960)**
Monit. belge, (99) : 3051
 Arrêté ministériel du 1er avril 1960 complétant l'arrêté du 15 janvier 1959, instituant une commission de recherche scientifique pour la pêche maritime (Ministerial order amplifying the order of 15 January 1959 establishing a Scientific Research Commission for Maritime Fisheries.—1 April 1960)
- Ad 59-8365. Appoints members of the commission established under ministerial order of 15 Jan. 1959.
- MF
61-00470
- Canada. Laws, Statutes, etc. (1959)**
Can. Gazette (II), (1) : 43
 Statutory orders and regulations 1960-14. Order in council P.C. 1959-1622 amending the New Brunswick fishery regulations pursuant to the fisheries act.—22 December 1959
- "Sport fish" incl. salmon, trout and black bass. Striped bass may be retained and marketed when unintentionally caught in nets, traps or weirs set for the catching of fish other than striped bass. Every person who, while fishing, catches a black bass measuring less than 9 inches in length from the tip of the nose to the end of the tail shall immediately return it to the water.
- MF
61-00471
- Canada. Laws, Statutes, etc. (1959)**
Can. Gazette (II), (1) : 44
 Décrets, ordonnances et règlements statutaires 1960-14. Décret C.P. 1959-1622 modifiant le règlement de pêche du Nouveau-Brunswick en vertu de la loi sur les pêcheries.—22 décembre 1959 (Statutory orders and regulations 1960-14. Order in council P.C. 1959-1622 amending the New Brunswick fishery regulations pursuant to the fisheries act.—22 December 1959)
- Fr* 61-00470.
- M
61-00472
- Canada. Laws, Statutes, etc. (1959)**
Can. Gazette (II), (2) : 148
 SOR/60-65. Herring fishing order made under the fisheries act.—30 December 1959
- Ad 60-4482. Pursuant to section 29 of the fisheries act the Minister of Fisheries hereby withdraws from the exception therefrom provided by ministerial order dated October 10, 1936, the additional quota of 3000 tons of herring authorized to be caught during the 1959-60 season in the lower east coast of Vancouver Island, sub-district by order in Council P.C. 1959-1511 of November 26, 1959, so that such herring are subject to the general prohibition contained in section 29 of the fisheries act.
- M
61-00473
- Canada, Laws, Statutes, etc. (1959)**
Can. Gazette (II), (2) : 154
 DORS/60-45. Ordonnance sur la pêche du hareng en vertu de la loi sur les pêcheries.—30 décembre 1959 (SOR/60-45. Herring fish order made under the Fisheries act.—30 December 1959)

MF

Canada. Laws, Statutes, etc. (1960)

61-00474

Can. Gazette (II), (2) : 114

SCR/60-36. Order in Council P.C. 1960-47 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—14 January 1960

The permit number or a code designating that number shall be embossed on one end of each can of fish or shellfish packed in the cannery for which the permit number has been issued.

MF

Canada. Laws, Statutes, etc. (1960)

61-00475

Can. Gazette (II), (2) : 117

DORS/60-36. Décret C.P. 1960-47 modifiant le règlement visant l'inspection des conserveries et des conserves de poisson, mollusques et crustacés en vertu de la loi sur les viandes et conserves alimentaires.—14 janvier 1960 (SOR/60-36. Order in Council P.C. 1960-47 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—14 January 1960)

Fr 61-00474.

M

Canada. Laws, Statutes, etc. (1960)

61-00476

Can. Gazette (II), (3) : 165-8

SCR/60-53. Order in Council P.C. 1960-100 relating to tariff treatment—duties reduced on certain goods pursuant to the customs act.—28 January 1960

Concerns *inter alia* frozen tuna loins for use in the manufacture of canned tuna.

M

Canada. Laws, Statutes, etc. (1960)

61-00477

Can. Gazette (II), (3) : 169-72

DORS/60-53. Décret C.P. 1960-100 relatif au régime tarifaire—droits réduits à l'égard de certaines marchandises en vertu de la loi sur les douanes.—28 janvier 1960 (SOR/60-53. Order in Council P.C. 1960-100 relating to tariff treatment—duties reduced on certain goods pursuant to the customs act.—28 January 1960)

Fr 61-00476.

M

Canada. Laws, Statutes, etc. (1960)

61-00478

Can. Gazette (II), (3) : 169

SOR/60-54. Order in Council P.C. 1960-101 amending the whaling regulations pursuant to the whaling convention act. 28 January 1960

Until 24 February 1965 no person shall kill or attempt to kill any blue whale in the North Atlantic Ocean.

REFERENCES

- M
61-00479
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (3) : 173
 DORS/60-54. Décret C.P. 1960-101 modifiant le règlement de chasse à la baleine en vertu de la loi sur la convention concernant la chasse à la baleine—28 janvier 1960 (SOR/60-54. Order in Council P.C. 1960-101 amending the whaling regulations pursuant to the whaling convention act. 28 January 1960)
- Fr* 61-00478.
- M
61-00480
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (4) : 203
 SOR/60-67. Order in Council P.C. 1960-135 amending the fish inspection regulations made under the fish inspection act.—4 February 1960
- Revokes provision relative to way of packing herring.
- M
61-00481
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (4) : 207
 DORS/60-67. Décret C.P. 1960-135 modifiant le règlement sur l'inspection du poisson en vertu de la loi sur l'inspection du poisson.—4 février 1960 (SOR/60-67. Order in Council P.C. 1960-135 amending the fish inspection regulations made under the fish inspection act.—4 February 1960)
- Fr* 61-00430.
- M
61-00482
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (4) : 210-9
 SOR/60-70. Order in Council P.C. 1960-166 relative to oil pollution prevention regulations made under the Canada shipping act.—11 February 1960
- Replaces the oil pollution prevention regulations order in Council P.C. 1957-392 of 21 March, 1957, as amended.
- M
61-00483
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (4) : 215-24
 DORS/60-70. Décret C.P. 1960-166 relatif au règlement sur la prévention de la pollution par les hydrocarbures, en vertu de la loi sur la marine marchande du Canada.—11 février 1960 (SOR/60-70. Order in Council P.C. 1960-166 relative to oil pollution prevention regulations made under the Canada shipping act.—11 February 1960)
- Fr* 61-00482.

M

Canada. Laws, Statutes, etc. (1960)

61-00484

Can. Gazette (II), (5) : 279

SOR/60-93. Order in Council P.C. 1960-219 amending the coastal fisheries protection regulations, made under the coastal fisheries protection act. 25 February 1960

Subject to the customs laws of Canada and with the permission of the Minister of Fisheries, fish on board a disabled foreign fishing vessel entering any port on the Atlantic coast for repairs may be unloaded, landed or trans-shipped.

M

Canada. Laws, Statutes, etc. (1960)

61-00485

Can. Gazette (II), (5) : 287

DORS/1960-93. Décret C.P. 1960-219 modifiant le règlement sur las protection des pêcheries côtières en vertu de la loi sur la protection de pêcheries côtières.—25 février 1960 (SOR/60-93. Order in Council P.C. 1960-219 amending the coastal fisheries protection regulations, made under the coastal fisheries protection act.—25 February 1960)

Fr 61-00484.

M

Canada. Laws, Statutes, etc. (1960)

61-00486

Can. Gazette (II), (5) : 280

SOR/60-94. Order in Council P.C. 1960-220 amending the British Columbia fishery regulations, made under the fisheries act.—25 February 1960

No person shall fish for or take clams of any variety from Seal Island in the vicinity of Comox until the 1st day of January 1965, except for experimental purposes with the consent of the Minister of Recreation and Conservation for British Columbia.

M

Canada. Laws, Statutes, etc. (1960)

61-00487

Can. Gazette (II), (5) : 288

DORS/60-94. Décret C.P. 1960-220 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—25 février 1960 (SOR/60-94. Order in Council P.C. 1960-220 amending the British Columbia fishery regulations, made under the fisheries act.—25 February 1960)

Fr 61-00486.

MF

Canada. Laws, Statutes, etc. (1960)

61-00488

Can. Gazette (II), (6) : 289-92

SOR/60-99. Order in Council P.C. 1960-263 amending the Saskatchewan fishery regulations made under the fisheries act.—3 March 1960

Amendments in respect of bag limits, closed seasons, prohibited methods of taking fish, etc.

REFERENCES

MF
61-00489

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 295-8

DORS/60-99. Décret C.P. 1960-263 modifiant le règlement de pêche de la Saskatchewan en vertu de la loi sur les pêcheries.—3 mars 1960 (SOR/60-99. Order in Council P.C. 1960-263 amending the Saskatchewan fishery regulations made under the fisheries act.—3 March 1960)

Fr 61-00488.

MF
61-00490

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 302-17

SOR/60-105. Order in Council P.C. 1960-299 amending the Ontario fishery regulations pursuant to the fisheries act.—10 March 1960

Amendments in respect of bag limits, closed seasons, prohibited methods of taking fish, etc.

MF
61-00491

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 309-25

DORS/60-105. Décret C.P. 1960-299 modifiant le règlement de pêche de l'Ontario en vertu de la loi sur les pêcheries.—10 mars 1960 (SOR/60-105 Order in Council P.C. 1960-299 amending the Ontario fishery regulations pursuant to the fisheries act.—10 March 1960)

Fr 61-00490.

M
61-00492

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 329

SOR/60-114. Order in Council P.C. 1960-300 relative to distribution of grant 1959-1960, pursuant to the deep sea fisheries act.—10 March 1960

Amount of grants with respect to vessels and to boats.

M
61-00493

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 337

DORS/60-114. Décret C.P. 1960-300 relatif à la distribution de la subvention pour l'année 1959-1960 en vertu de la loi sur les pêches maritimes.—10 mars 1960 (SOR/60-114. Order in Council P.C. 1960-300 relative to distribution of grant 1959-1960, pursuant to the deep sea fisheries act.—10 March 1960)

Fr 61-00492.

M
61-00494

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (7) : 332-3

SOR/60-116. Order in Council P.C. 1960-337 amending the Pacific halibut fisheries regulations, pursuant to the northern Pacific halibut fishery convention act.—17 March 1960

Relative to the halibut fishing season and to permits for the retention and landing of halibut caught.

M

Canada. Laws, Statutes, etc. (1960)

61-00495

Can. Gazette (II), (7) : 340-1

DORS/60-116. Décret C.P. 1960-337 modifiant le règlement sur la pêche du flétan dans le Pacifique en vertu de la loi sur la convention relative aux pêcheries de flétan du Pacifique-Nord.—17 mars 1960 (SOR/60-116. Order in Council P.C. 1960-337 amending the Pacific halibut fisheries regulations, pursuant to the northern Pacific halibut fishery convention act.—17 March 1960)

Fr 61-00494.

MF

Canada. Laws, Statutes, etc. (1960)

61-00496

Can. Gazette (II), (7) : 421-3

SCR/60-141. Order in Council P.C. 1960-412 amending the lobster fishery regulations pursuant to the fisheries act.—31 March 1960

No person shall fish for lobster by hand or by means of any implement other than regular lobster traps. New description of the lobster fishing districts No. 6B and No. 7B.

MF

Canada. Laws, Statutes, etc. (1960)

61-00497

Can. Gazette (II), (7) : 430-2

DORS/60-141. Décret C.P. 1960-412 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—31 mars 1960 (SOR/60-141. Order in Council P.C. 1960-412 amending the lobster fishery regulations pursuant to the fisheries act.—31 March 1960)

Fr 61-00496.

F

Canada. Laws, Statutes, etc. (1960)

61-00498

Can. Gazette (II), (7) : 424-5

SOR/60-142. Order in Council P.C. 1960-413 amending the Alberta fishery regulations pursuant to the fisheries act.—31 March 1960

Concerns the quantity of fish that may be caught by angling.

F

Canada. Laws, Statutes, etc. (1960)

61-00499

Can. Gazette (II), (7) : 433-4

DORS/60-142. Décret C.P. 1960-413 modifiant le règlement de pêche de l'Alberta en vertu de la loi sur les pêcheries.—31 mars 1960 (SOR/60-142. Order in Council P.C. 1960-413 amending the Alberta fishery regulations pursuant to the fisheries act.—31 March 1960)

Fr 61-00498.

REFERENCES

- M
61-00500
- Canada. Laws, Statutes, etc.** (1960)
Can. Gazette (II), (8) : 461
 SOR/60-166. Order in Council P.C. 1960-493 amending the Nova Scotia fishery regulations, pursuant to the fisheries act.—13 April 1960

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VOLUME 5—MEETINGS: CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-001me to 61-042me

- UN.** 21/8/61 G
61-001me
Rome, Italy. 11 days
Conference on new sources of energy
- American Society of Plant Physiologists/Botanical Society of America, Physiological Section.** 28/8/60 F
61-002me
Stillwater, Okla., U.S.A. 4 days
Plant physiology meeting
- FAO.** 18/9/61 M
61-003me
Tokyo, Japan. 13 days
Research vessel forum
- IAEA.** 17/4/61 M
61-004me
Vienna, Austria. 6 days
Amendment to 60-337me. 1st Meeting of panel on the monitoring of waste disposal into the sea
- Fisheries Council of Canada.** 10/4/61 MF
61-005me
Toronto, Ontario, Canada. 3 days
Sixteenth annual meeting

Agenda incl. discussions on Rome fish meal meeting results, the EFTA and Canadian fishery exports, freshwater fisheries research.
- Challenger Society.** 26/4/61 M
61-006me
London, U.K. 1 day
Annual general meeting and 210th Scientific meeting

Mr. R. L. Coet will read paper on "The movement of Brake Bank, south of Ramsgate".
- USPHS, Taft Sanitary Engineering Center.** Jan. 61 F
61-007me
Cincinnati, Ohio.

Courses on "Biooxidation of industrial wastes" and "Recent developments in water bacteriology".

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OEEC. 1961 F
61-008me
Senior visiting fellowship, awarded to Prof. F. J. Trembley, Lehigh University, U.S.A., for ecological stream studies in England

Pacific Tuna Conference. 14/8/61 M
61-009me
Honolulu, Hawaii, U.S.A. 6 days.
Amendment to 60-249me. Pacific tuna biological conference

Special meeting in conjunction with 60-248me.

UNESCO. 19/10/61 M
61-010me
Paris, France. 9 days.
International Oceanographic Commission—1st meeting.

Comitato Nazionale per l'Energia Nucleare (Italia). 1/6/61 M
61-011me
Palermo, Italy. 1 day
Giornata nucleare. Contaminazione radioattiva dei mari. [Nuclear day. Radioactive contamination of the sea]

Symposium in connection with the Mediterranean Fair.

Department of Marine Science of College of William and Mary/Virginia Fisheries Laboratory. Summer 1961 M
61-012me
Graduate courses in marine science

Netherlands Universities Foundation for International Cooperation, Technological University of Delft/OEEC/WHO F
61-013me
23/10/61–17/7/62
Delft, Netherlands.
European course in sanitary engineering

The course will cover: The supply of domestic and industrial water; Treatment and disposal of liquid and solid wastes; and in special cases another combination of subjects. The subjects taught will be the following: (a) Introductory subjects: Interaction between man and his environment; Principles of hygiene; Review of sanitary engineering. (b) Basic subjects: Tuition in general chemistry and physics; Principles of micro- and hydrobiology; Practical laboratory course in chemistry and microbiology; Chemistry and microbiology of water and sewage; Applied statistics; Hydrology; Special chapter of hydraulics for the sanitary engineer. (c) Engineering subjects: Water and sewage treatment; Ground-water recovery and recharge; Pumping stations and pipe lines; Design of networks; Water supply; Sewerage and sewage works; Disposal and utilization of town refuse; Special subjects; Management of water resources.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 13/2/61 G
61-014me
Chicago, Ill., U.S.A. 4 days
Semiannual meeting

MEETINGS

INPFC, U.S. Section. 27/2/61 Juneau, Alaska. 3 days Meeting	M 61-015me
Pacific Fisheries Technologists. 19/3/61 Bellingham, Wash., U.S.A. 4 days Annual meeting	M 61-016me
American Society of Bacteriologists. 23/8/61 Chicago, Ill., U.S.A. 5 days Annual meeting	G 61-017me
American Society of Limnologists and Oceanographers. 27/8/61 Lafayette, Ind., U.S.A. 5 days Meeting	MF 61-018me
Pacific Tuna Conference. 25/9/61 Lake Arrowhead, Calif., U.S.A. 3 days 12th Pacific tuna biologists conference	M 61-019me
ACC. 14/3/61 Rome, Italy. 3 days Meeting of sub-committee on oceanography	M 61-020me
Canadian Institute of Food Technology. 24/5/61 Montreal, Canada. 2 days Meeting	MF 61-021me
ECE. 12/6/61 Geneva, Switzerland. 5 days Meeting of working party on standardization of perishable foodstuffs	MF 61-022me
ECE. 10/7/61 Geneva, Switzerland. 5 days Conference of European statisticians	MF 61-023me
International Institute of Refrigeration. 10/5/61 Budapest, Hungary. 4 days Meeting of Commission 5	G 61-024me
Karolinska Institutet. 31/7/61 Stockholm, Sweden. 5 days International congress of biophysics incl. session on radiation biophysics	G 61-025me

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- American Seafood Distributors' Association.** 15/4/61 M
61-026me
Washington, D.C., U.S.A. 1 day
Annual meeting
- Sponsor Unknown.** 17/4/61 F
61-027me
Tucson, Arizona, U.S.A. 3 days
National watershed congress
- Sponsor Unknown.** 17/4/61 M
61-028me
Brussels, Belgium. 14 days
Diplomatic Conference on the law of the sea
- National Academy of Sciences/National Research Council.** 27/4/61 M
61-029me
Washington, D.C., U.S.A. 2 days
Meeting of the committee on oceanography
- FAO.** 15/5/61 MF
61-030me
Dakar, Senegal. 6 days
Preparatory meeting on the creation of a consultative fisheries body in West Africa
- Shrimp Association of the Americas.** 15/6/61 M
61-031me
Mexico City, Mexico. 3 days
10th Annual meeting
- Institute of Biology (U.K.).** 27/10/61 MF
61-032me
London, U.K. 2 days
Symposium on "Exploitation of the world's fauna for food"
- Second day devoted to the "Sea". Potential production, new exploitation methods, conservation, fresh- and brackish-water pond culture, culture of molluscs and crustacea, farming the seas, control of pests.
- ECAFE.** 22/2/61 F
61-033me
Saigon, Vietnam. 6 days
12th Session of the Committee on coordination of investigation of the Lower Mekong Basin
- AIBS.** 27/8/61 MF
61-034me
Lafayette, Ind., U.S.A. 5 days
Annual joint meeting of biological societies

MEETINGS

American Society of Ichthyologists and Herpetologists.	31/3/61	MF
Austin, Texas, U.S.A. 3 days		61-035me
Meeting		
Amendment to 60-190me.		
WMO. May/61		F
Washington, D.C.		61-036me
1st Session of commission for hydrological meteorology		
Scottish Field Studies Association.	6/5/61	M
Isle of Raasay, U.K. 8 days		61-037me
Course in marine biology		
Scottish Field Studies Association.	6/9/61	M
Isle of Raasay, U.K. 8 days		61-038me
Course in marine biology		
Scottish Field Studies Association.	20/5/61	M
Isle of Great Cumbrae, U.K. 8 days		61-039me
Course in marine biology		
UN. 13/3/61		MF
Geneva, Switzerland		61-040me
Scientific committee on the effects of atomic radiation (UNSCEAR)—		
9th Session		
Agenda incl. technical discussion of exposure by disposal of radioactive wastes.		
University of North Carolina. Summer/61		MF
Chapel Hill, N.C., U.S.A.		61-041me
New graduate course in algology and plant cytology		
WMO. 11/5/61		M
Geneva, Switzerland. 3 weeks		61-042me
13th Session of the executive committee		

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Saetersdal, G. (1959) *should read*
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61-011er
(60-2922)

Senckenbergiana, 39 ($\frac{1}{2}$) : 57-84 *should read*
Senckenbergiana, 39 ($\frac{1}{2}$) : 57-84

61-012er
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Annotation: Lists spp. of Chlorophyceae, Chrysophyceae, and Cyanophyceae which have been found in collections of phytoplankton. 61-050ad
(60-5379)

Reference: : 70 p. 61-051ad
(60-9997)

Title: Matematicheskii analiz dinamiki chislennosti ryb (Mathematical analysis of fish population dynamics) 61-052ad
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Annotation: Summarizes methods described in : 1954 Widrig, T. M. and 581530 and other.

Title: Rakoobraznye. Usonogne raki (Cirripedia Thoracica) morei SSSR (Crustaceans. Cirripedia Thoracica from the seas in USSR) 61-053ad
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Annotation: Ill. monograph on biology of group as a whole; systematic treatment down to spp., of Lepadomorpha, Verrucomorpha, and Balanomorpha.

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Annotation: Correlates intensity of energetic metabolism and weight of animals. Presents numerical equations for arthropods, fishes, birds and mammals.

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- Annotation:* Lists pelagic gammarid spp. caught in INW, with indications to location of capture, taken by tow or depth haul. 61-062ad (60-4743)
- Annotation:* WPA 34 (6) 1036. A description is given of the design and operation of a piston coring device suitable for use in sampling the bottom deposits in bays and harbours to determine the rate of accumulation of polluting material. 61-063ad (59-1940)
- Annotation:* As per title, incl. provinces or territories in which spp. are found. 61-064ad (59-2112)
- Annotation:* 14-year creel census. Fishing mortality rates by tagging; relative success of various planted spp. 61-065ad (60-8025)
- Annotation:* Rough data, some of it listed without explanation, is provided from Florida and Louisiana to indicate value of air reconnaissance in marine biology, particularly among coastal areas. Recommendations are offered to future users of this method. 61-066ad (60-8020)
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México, D.F., 13 p.
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Los grandes tiburones (*Cetorhinus* y *Rhincodon*) de la fanau marina de Chile (The large sharks, *Cetorhinus* and *Rhincodon*, of the marine fauna of Chile). En
- Mentions *R. typus* captured in Chilean waters, 60 miles NW Iquique Harbour and gives the localities where *C. maximus* has been caught. A key to the sharks, families from Chile is given.
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Megabalanus psittacus (Molina) como epizoo de *Squalus fernandinus* (Molina) (*Megabalanus psittacus* (Molina) as epizoan of *Squalus fernandinus* (Molina)). En
- M. psittacus* (Molina) is described as epizoan from *S. fernandinus* (Molina). It seems to be the 1st record of a Cirripedia living attached to Elasmobranchii in Chile.
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Sobre la fecundidad de la gamba o camaron nailon (*Heterocarpus reedi* Bahamonde) (On the fecundity of the shrimp, *Heterocarpus reedi* Bahamonde). En
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Invest. zool. chil., 4 : 289-99
Lista preliminar de los anfibios de Chile y breves apuntes sobre su distribucion y biologia (Preliminary list of amphibians of Chile and brief notes on their distribution and biology). En
- A preliminary checklist of 27 spp. of Chilean batrachians is given. Zoo-geographical features of the Chilean batrachian fauna are also defined. The relations between batrachial fauna from the Chilean and the Peruvian-Bolivian Andean area are established through spp. of *Bufo* and *Telmatobius*.

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Suomen osallistuminen merentutkimusalus 'Arandalla' kansainvälisen Geofysiikan Vuoden 1957-58 tutkimuksiin (Finnish participation with research vessel 'Aranda' in the studies of International Geophysical Year 57-58).

Review of IGY description of research vessel 'Aranda' and review of Finnish work in Barents Sea.

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Re 60-0563.

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Ann. N.Y. Acad. Sci., 77 : 25-406

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Rearing of annelids, echinoderms, protochordates etc., on non-living media, especially in USSR and Japan. One of the aims of this study is to get to know the minimal nutritional requirements of the Metazoa which may serve as a tool in medicine and agriculture. Culturing and rearing marine animals under laboratory conditions has been achieved in some cases. Divided into 5 parts and there are 24 contributions.

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El fenómeno de las regurgitaciones en el guanay (*Phalacrocorax bougainvillii* L.) y un método para estimar la ingestión diaria (The phenomenon of the regurgitations in the cormorant *Phalacrocorax bougainvillii* L., and a method to estimate the daily ingestion)
- Description of regurgitation and method for estimation of ingestions.

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Gewässer u. Abwässer, 6 (25) : 76 p.
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Tables of data on surface temperature and salinity.

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Recherches faunistiques et écologiques sur la rivière "La Massane"
 (Faunistic and ecological investigations of the stream "La Massane")

A survey of the topography, environment and macro-fauna and flora.

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Note préliminaire sur les hirudiniées de la source du Lez (Preliminary note
 on the hirudins of the head waters of the Lez)

A list of spp. with notes on their habits and ecology.

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Vie et Milieu, 10 (3) : 280-95

Étude comparée de la structure morphologique et anatomique de
Boergeseniella fruticulosa (Wulf.) Kylin de la Méditerranée et de l'Océan
 Atlantique (Comparative study of the morphological and anatomical structure
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Variations of the system of ramifications, anatomical and morphological
 variations are compared.

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 Etudes sur la faune interstitielle des Iles Bahamas (A study of the interstitial fauna of the Bahamas Islands)

Systematic description and ecology of the following spp. of tardigrades:
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Study based on monthly net samples for 1949 and 1950, at depth of 10-30 m. Systematic account of main phytoplankton and zooplankton components; special study of body shape variations in *Ceratium*. Vertical distribution changes; classification of lake in terms of systems based on productivity; outline of future work.

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Biometrics, 15 (4) : 642
 Dispersion on a sphere

Abstr. of paper presented at the joint meetings of the Eastern North American Region of the Biometric Society, the Institute of Mathematical Statistics, and the Physical Science Section of the American Statistical Association, held at the Graduate School of Public Health, Univ. of Pittsburgh, Pittsburgh, Pennsylvania, on 19-21 Mar. 1959. A survey is made of the methods for the statistical analysis of observations which are directions. For directions which are not widely dispersed about the mean direction it is often possible to treat dispersion by similar methods arising in normal theory. In particular, tests that several populations have the same mean direction or that two populations have the same amount of dispersion may be made with good approximation by F-tests.

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Contribuição para o conhecimento das lagostas do Arquipélago de Cabo Verde (Contribution to the knowledge of the rock lobsters of the Cape Verde Archipelago)

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MF

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93 p.

Report of proceedings

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Calcutta, 72 p.

First session of . . . 1959—Souvenir volume

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61-00710

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Contains 61-00712 to 61-00724.

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In 61-00711 : 1–2
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In 61-00711 : 2–3
 (A) Marine zoology and fisheries in the Indian Ocean—4. Studies on the ecology of intertidal sands of the Visakhapatnam coast
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In 61-00711 : 3–4
 (A) Marine zoology and fisheries in the Indian Ocean—5. A review of marine biological studies at the Andhra University, Waltair
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John, P. A. (1959)M
61-00718*In* 61-00711 : 5

(A) Marine zoology and fisheries in the Indian Ocean—7. Wood preservation in relation to fisheries

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Timber burrowing organisms along the Kerala coast destroy a number of fishing implements. *Bankia*, *Martesia* and *Sphaeroma* are the chief organisms encountered. Different types of timber used and their respective costs. Average period of service given and the annual cost of replacement is drawn up.

Kurien, C. V. & N. M. Shah (1959)M
61-00719*In* 61-00711 : 5–6

(A) Marine zoology and fisheries in the Indian Ocean—8. Studies on the bottom conditions and bottom deposits along the Kerala coast within the 100-fathom line

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

Pillay, N. K. (1959)MF
61-00720*In* 61-00711 : 6–7

(A) Marine zoology and fisheries in the Indian Ocean—9. Evolution of estuarine isopods

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

Pillay, N. K. (1959)M
61-00721*In* 61-00711 : 7

(A) Marine zoology and fisheries in the Indian Ocean—10. Evolutionary trend among parasitic Flabellifera

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Comparative study of the flabelliferan isopods belonging to the families Cirolanidae, Corallanidae, Aegidae and Cymothoidae.

Nath, P. Rabindra (1959)M
61-00722*In* 61-00711 : 7–8(A) Marine zoology and fisheries in the Indian Ocean—11. Feeding habits and seasonal distribution of the frigate mackerel, *Auxis thazard* (Lacépède)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

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61-00725
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 (1959)
 Calcutta, 54 p.
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61-00726
- Ray, H. C. (1959)**
In 61-00725 : 4
 Section 1.—General zoology, zoogeography and evolution—6. Chokage of filtered-water pipe systems by freshwater molluscs
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In 61-00725 : 6
 Section 2.—Histology, cytology, embryology, development and genetics—10. The thyroid gland in some Indian air-breathing fishes
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61-00728
- Swarup, H. (1959)**
In 61-00725 : 11

Section 2.—Histology, cytology, embryology, development and genetics—
17. Effect of triploidy on the development of gonads in *Gasterosteus aculeatus* (L.) (Pisces)

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In 61-00725 : 13

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- Dubale, M. S. & N. K. Shah (1959)**
In 61-00725 : 15

Section 4.—Vertebrate morphology—22. The cranial muscles of *Wallago attu* (Bl. & Schn.) (Pisces)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

- MF
61-00731
- Khanna, S. S. (1959)**
In 61-00725 : 15

Section 4.—Vertebrate morphology—23. Structure of the tongue in freshwater teleosts (Pisces)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Structure in 6 spp. is described. *Ophicephalus*, *Notopterus*, *Silonia*, *Wallago*, *Hilsa* and *Cirrhitina*.

- F
61-00732
- Saxena, D. B. (1959)**
In 61-00725 : 16

Section 4.—Vertebrate morphology—26. Extent of gill surface in the teleost *Rita rita*

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

- F
61-00733
- Ramakrishna, G. (1959)**
In 61-00725 : 18

Section 5.—Systematic zoology (excluding fishes, Insecta and helminths)—
27. A new species of *Argulus* Müller (Crustacea : Copepoda) from Kerala

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Description of specimens from a cyprinoid fish found in a local pond at Puthenveli.

REFERENCES

F
61-00734

Tiwari, K. K. (1959)
In 61-00725 : 18

Section 5.—Systematic zoology (excluding fishes, Insecta and helminths)—
28. New species of Conchostraca (Crustacea : Phyllopoda) from Rajasthan

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959. 4 new spp. belonging to the genera *Caenestheria*,
Caenestheriella, *Eocyclus* and *Leptersheria*.

MF
61-00735

Tripathi, Y. R. (1959)
In 61-00725 : 18–9

Section 5.—Systematic zoology (excluding fishes, Insecta and helminths)—
29. Parasitic Copepoda from Indian fishes—3. Families Anthosomatidae and
Dichelestheidae (Crustacea : Copepoda)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959. Spp. of *Lernanthropus*, *Eudactylina* and *Pseudocycnus* are
described. Keys to the Indian spp. of *Lernanthropus* and *Eudactylina* are
given.

MF
61-00736

Tripathi, Y. R. (1959)
In 61-00725 : 19

Section 5.—Systematic zoology (excluding fishes, Insecta and helminths)—
30. Parasitic Copepoda from Indian fishes—IV. Achtheriformes

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959. 3 new spp. of *Clavellisa*, one each of *Brachiella*, *Naobranchia*
and *Thysanote* are described from marine and estuarine food fishes. *Isobranchia*
appendiculosa Heegard, 1947, first recorded from Persia, is now also recorded
from the Bay of Bengal area. Key to the subfamilies and genera of
Lernaeopodidae with a check list of spp. of the family.

MF
61-00737

Balasubrahmanyam, K. (1959)
In 61-00725 : 24

Section 7.—Marine zoology—38. Apseudidae (Isopoda: Crustacea) from the
Vellar Estuary and inshore waters off Porto Novo

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959.

M
61-00738

Dutt, S. (1959)
In 61-00725 : 24–5

Section 7.—Marine zoology—39. Morphometric studies on *Sardinella*
spp. (Pisces) of Waltair Coast

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959.

- M
61-00739
- Ganapati, P. N. & M. V. L. Rao** (1959)
In 61-00725 : 25

Section 7.—Marine zoology—40. Observations on the development of *Scyphistoma* larvae (Coelenterata) from Visakhapatnam Harbor

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

- M
61-00740
- Ganapati, P. N. & R. Nagabhushanam** (1959)
In 61-00725 : 26

Section 7.—Marine zoology—41. Effect of pollution on hydrographical conditions in Visakhapatnam Harbor waters

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Results of a preliminary survey from May 1954 to Apr. 1955.

- M
61-00741
- Ganapati, P. N. & D. Sarojini** (1959)
In 61-00725 : 27

Section 7.—Marine zoology—43. Ecology of Foraminifera off Visakhapatnam Coast

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

- M
61-00742
- Ganapati, P. N. & K. Shyamasundari** (1959)
In 61-00725 : 28

Section 7.—Marine zoology—44. Seasonal occurrence of mysids (Crustacea) off Waltair Coast

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

- M
61-00743
- Ganapati, P. N. & K. S. Rao** (1959)
In 61-00725 : 28–9

Section 7.—Marine zoology—45. Observations on the feeding and spawning of the anchovies (Pisces) off Waltair Coast

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Food, feeding and spawning habits of *Thrissocles mystax* (Schn.) and brief account of the food of *T. setirostris* (Brous.) and *T. dussumieri* (C.V.)

- M
61-00744
- Ganapati, P. N. & D. V. S. Rao** (1959)
In 61-00725 : 29–30

Section 7.—Marine zoology—46. On the distribution of *Physalia* (Coelenterata) in Indian waters

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Strandings are studied with past records.

REFERENCES

- Jacob, J. & K. Rangarajan** (1959) MF
In 61-00725 : 29-30 61-00745
Section 7.—Marine zoology—47. Seasonal cycles of hydrological events in Vellar Estuary

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959.

- Nagabhushanam, R.** (1959) M
In 61-00725 : 30 61-00746
Section 7.—Marine zoology—48. Role of primary film in the settlement of marine borers (Mollusca)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Experiments were conducted upon the larvae of *Martesia striata* and *Teredo furcillatus*.

- Nagabhushanam, R.** (1959) M
In 61-00725 : 31 61-00747
Section 7.—Marine zoology—49. Gregarious attraction as a factor influencing the settlement of wood-boring molluscs

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Experimental investigations in 1956 to determine the gregarious tendency of larvae of *Martesia striata* and *Teredo furcillatus*.

- Nagabhushanam, R.** (1959) M
In 61-00725 : 31 61-00748
Section 7.—Marine zoology—50. Settlement of marine borers (Mollusca) in the Visakhapatnam Harbor in relation to light and gravity

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Experiments for investigating effects of light and gravity upon the intensity of attack by *Martesia striata*, *Teredo furcillatus* and *Bankia campanellata*.

- Nagabhushanam, R.** (1959) M
In 61-00725 : 32 61-00749
Section 7.—Marine zoology—51. Observations on the biology of the marine wood-boring mollusc, *Bankia (Liliobankia) campanellata*

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Breeding season, development and settlement; fertilization; growth rate.

- Rao, M. B. (1959)** MF
In 61-00725 : 32-3
Section 7.—Marine zoology 52. On the species of the genus *Setipinna* Swainson (Pisces) of the Godavary Estuary
Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. 2 spp. occur. One, *S. taty*, the other sp. differs from all known spp.
- Rao, T. S. S. (1959)** M
In 61-00725 : 33
Section 7.—Marine zoology 53. Studies on Chaetognatha of Indian seas—Part V. Distribution of the Chaetognatha off Kakinada Coast
Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Total of 12 spp. belonging to 3 genera, *Sagitta*, *Pterosagitta* and *Krohnitta*, occur.
- Jain, S. L. (1959)** F
In 61-00725 : 39-40
Section 9.—Helminthology 64. Monogenea of Indian freshwater fishes. XI. Three new trematodes of the genus *Dactylogyrus* Diesing, 1850
Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. *D. seenghali* sp. nov., from *Mystus seenghala*; *D. ritius* sp. nov., from *Rita rita*; *D. catlaeus* sp. nov., from *Catla catla*. Key for the identification of the Indian spp.
- Price, E. W. (1959)** M
In 61-00725 : 40
Section 9.—Helminthology 65. What is *Capsula martinieri* Bosc?
Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Monogenetic trematode occurred on the skin of the sunfish, *Mola mola*.
- Das, S. M. (1959)** F
In 61-00725 : 52
Section 11.—Fish and fisheries 87. The scales of freshwater fishes of India and their importance in age determination and systematics
Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Gives detailed scale readings of 20 spp.
- Das, S. M. (1959)** F
In 61-00725 : 52-3
Section 11.—Fish and fisheries 88. Eggs, larvae and early life-history of some catfishes of Lucknow
Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. *Bagarius*, *Wallagonia*, *Mystus*, *Clarias*, *Heteropneustes*, *Eutropiichthys*, *Callichrous* have been studied.

REFERENCES

- F
61-00756
- Jayaram, K. C.** (1959)
In 61-00725 : 53
 Section 11.—Fish and fisheries—89. The nomenclatural status of *Mystus*, *Macrones*, *Aoria* and other names for a genus of Asiatic siluroid fishes
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.
- M
61-00757
- Misra, K. S.** (1959)
In 61-00725 : 54
 Section 11.—Fish and fisheries—90. On a new scyliorhinid fish from the collections of the R.I.M.S. 'Investigator'
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Deep sea shark—family Scyliorhinidae—collected at 569 fathoms from the Andaman Sea, is described with ill. under the name *Pentanchus (Parapristurus) investigatoris*.
- F
61-00758
- Soni, D. D.** (1959)
In 61-00725 : 54
 Section 11.—Fish and fisheries—91. Fish fauna of the Bhopal Lower Lake
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Collected in May 1958. Spawning and nursery areas of *Ophiocephalus* were also observed. Few fishes such as *Rasbora*, *Barilius* were found in abundance.
- MF
61-00759
- Tubb, J. A.** (1959)
In 61-00725 : 54
 Section 11.—Fish and fisheries—92. The Indo-Pacific Fisheries Council
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Describes briefly how the IPFC came into being, what are its functions and activities and how the organization works.
- MF
61-00760
- Romania. Ministerul Industriei Bunurilor de Consum.**
Departamentul Industriei Alimentare (1959)
Bul. Inst. Cerc. piscic., 18 (3) : 88 p.
 Contains 61-00761 to 61-00767. Also gives notes on congresses etc., information about fishculture at home and abroad, book reviews.
- M
61-00761
- Mărgineanu, C. & A. Petran** (1959)
Bul. Inst. Cerc. piscic., 18 (3) : 5–24
 Cercetări asupra zooplanctonului mării în regiunea sudică a litoralului Romînesc al mării Negre (Research on the marine zooplankton of the southern region of the Roumanian Black Sea coast). Fr Ru
 Data for June–Sep. 1958; qualitative and quantitative zooplankton analyses, vertical and horizontal sections; relation of biomass and numbers of organisms to depth.

MF

Stoina, T., R. Leonte-Teodorescu & L. Popescu (1959)

61-00762

Bul. Inst. Cerc. piscic., 18 (3) : 25-42

Contribuții la cunoașterea influenței apelor dunării asupra chimismului bălților Deltei și în consecință asupra puterii de producție (Contributions to knowledge of the influence of Danube waters on the chemical characteristics of the Delta lakes and consequently on their potential productivity). Fr Ru

General review of the problem, with new data.

F

Racoviceanu-Georgescu, R. & I. Bîrcă (1959)

61-00763

Bul. Inst. Cerc. piscic., 18 (3) : 43-50

Contribuții la cunoașterea gradului de toxicitate a ierbicidelor asupra peștilor (Contributions to knowledge of the toxicity of herbicides to fishes). Fr Ru

Experiments in aerated and non-aerated aquaria on toxic limits of "Ferresta", "2-4D" and "Raphone", using *Cyprinus carpio* and *Daphnia magna* as test organisms.

F

Papadopol, M. (1959)

61-00764

Bul. Inst. Cerc. piscic., 18 (3) : 51-60

Dăte cu privire la ritmul de creștere și gradul de îngrășare a crapului (*Cyprinus carpio* L.) în bălțile Crapina-Jijila (Data on the growth rhythm and fatness of the carp, *Cyprinus carpio* L., in the Crapina-Jijila Lakes). Fr Ru

Growth rates, conditions factors, length-weight relation.

F

Gyurko, S. & A. Róbert (1959)

61-00765

Bul. Inst. Cerc. piscic., 18 (3) : 61-70

Contribuții la studiul trăiektului digestiv și al nutriției la scobăr (*Chondrostoma nasus* (L.)) (Contributions to the study of the alimentary canal and nutrition of the chub, *Chondrostoma nasus* L.). Fr Ru

Growth of lip, relative and absolute lengths of gut, sex differences, diet.

F

Rădulescu, I. & N. Suceveanu (1959)

61-00766

Bul. Inst. Cerc. piscic., 18 (3) : 71-4

Contribuții la cunoașterea hranei și parazitofaunei somnului pitic (*Ameiurus nebulosus* La Sueur) din apele Românești (Contribution to knowledge of the nutrition and parasitic fauna of *Ameiurus nebulosus* La Sueur in Roumanian waters). Fr Ru

Data for 1956 from Cefa fishculture station and River Timiș. Diet is only fish incidentally. *Ancyrocephalus pricei* is the only specific parasite, it is of American origin.

REFERENCES

- F
61-00767
- Munteanu, I.** (1959)
Bul. Inst. Cerc. piscic., 18 (3) : 75-9
 Contribuții la cunoașterea hranei și dezvoltării puietului de crap pe diversele zone de reproducere din Delta și Razelm (Contribution to knowledge of the nutrition and development of carp fry in the various spawning time zones of the Danube Delta and Lake Razelm). Fr Ru

Cyprinus carpio studied in spring of 1958. Proposes construction of more nurseries as the flood area is reduced.

- MF
61-00768
- Sundaram, S. & P. S. Sarma** (1960)
Biochem. J., 77 : 465-72

Purification and properties of a protease from the gut of *Etroplus suratensis*

Study of freshwater fish from Madras. Activity as function of pH, temperature, substrate composition. Summarizes references to purification of proteases from other fish spp.—halibut, shark, salmon, tunas. Objective was possible use as substitutes for pancreatin in leather industry.

- F
61-00769
- Nawar, G.** (1960)
Ann. Mag. nat. Hist., 2 (22) : 603-6

A study on the fecundity of the Nile mormyrid *Hyperopisus bebe* Lacépède

Egg production per breeding season, estimated from 62 females collected at Khartoum, Aug. 1958. Correlation with weight and length of fish.

- MF
61-00770
- Hasler, A. D.** (1960)
Science, 132 (3430) : 785-92

Guideposts of migrating fishes

Review of literature on migration of *Oncorhynchus* in North Pacific; reference also to *Anguilla* and *Roccus*; theories of odor and sun orientation; tank experiments for fish training in compass direction; tagging and fish tracking methods.

- G
61-00771
- Hailman, J. P.** (1960)
Science, 132 (3430) : 829-31

Cannibalism

Discusses biological definition of this term.

- G
61-00772
- Best, J. B.** (1960)
Science, 132 (3430) : 831-2

Cannibalism

Re 61-00771, concerning biological significance of cannibalistic behaviour.

- M
61-00773
- Mazières, J.** (1959)
Sci. Pêche, (72-73) : 12 p.
Les établissements ostréicoles d'expédition (The commercial oysterculture enterprises)

Describes technical and sanitary conditions to be met by commercial oysterculture enterprises.
- F
61-00774
- Belyshev, B. F. & T. N. Gagina** (1959)
Fragm. faun. Inst. zool. polsk, 8 (9) : 159-78
O faunie wazek (Odonata) okolic Bajkalu (On the fauna of Odonata of the Baikal Region). En
- MF
61-00775
- Gugen, O.** (1960)
Bull. Conféd. Act. subaq., (8) : 2 p.
Entraînement pour la plongée (Training for diving)

Article on avoidance of accidents with aqualungs.
- MF
61-00776
- Gugen, O.** (1960)
Bull. Conféd. Act. subaq., (8) : 2 p.
Training for diving.

En 61-00775.
- M
61-00777
- Neushul, M.** (1959)
Buenos Aires, 9 p.
Estudios biológicos submarinos en aguas Antárticas—Informe sobre las investigaciones realizadas durante la campaña antártica argentina 1957-1958 (Submarine biological studies in Antarctic waters—Report on the investigations carried out during the Argentinian Antarctic expedition 1957-1958)
- M
61-00778
- Philippines. Bureau of Fisheries. Fisheries Research Division** (1958)
Mimeo, 13 p.
Preliminary results of marine fishery biological researches on the question of regulating otter trawl fisheries in Philippine Bay waters

An interim report on the knowledge obtained so far on the biological aspects involved in the proper management of the demersal fisheries resources in Philippine Bay waters.
- M
61-00779
- Machado-Cruz, J. A.** (1959)
Publ. Inst. Zool. Augusto Nobre, (65) : 7 p.
Hepatoxylon trichiuri (Holten, 1802)—Nota sobre o seu aparecimento na costa de Portugal (*Hepatoxylon trichiuri* Holten, 1802—Note on its occurrence on the coast of Portugal)

Notes on adult and postlarval forms found in *Lepidopus caudatus*.

- M
61-00780
- Vernet-Cornubert, G.** (1959)
Bull. Soc. Sci. Nancy, 18 (3) : 263-75
Influence de l'ablation des pédoncules oculaires sur les caractères externes des femelles de *Pachygrapsus marmoratus* (Fabricius) parasitées par *Sacculina carcini* (Thompson) (Influence of ablation of ocular peduncles on the external sexual characters of females of *Pachygrapsus marmoratus* (Fabricius) parasitised by *Sacculina carcini* (Thompson))
- Description of the consequences of operation on females in juvenile stages and of other females after all external sexual characters have already appeared.
- M
61-00781
- Veillet, A.** (1959)
Bull. Soc. Sci. Nancy, 18 (3) : 329-30
Note sur le chauffage des aquariums à eau courante (Note on heating running water aquaria)
- F
61-00782
- Begum, A.** (1958)
Agric. Pakist., 9 (4) : 370-92
A short note on plankton of freshwater ponds of Dacca
- Lists of genera with ill. of zooplankton and phytoplankton, in five ponds, rough quantitative comparisons in relation to differences in seasonal conditions, water turbidity, and amount of submerged vegetation. Note on fertilization experiments in tubs and aquaria.
- MG
61-00783
- Béné, G. J., R. Beeler & M. Golub** (1960)
Amsterdam, 213 p.
Nuclear physics and atomic energy : terms of nuclear physics and nuclear technology in English, French, German, Russian
- Glossary of 2117 technical terms, fully indexed and cross-indexed. Published under the auspices of the universities of Geneva, Mainz, and Georgetown.
- G
61-00784
- Moran, P. A. P.** (1959)
London, Methuen, 111 p.
The theory of storage
- Problem of a store with either a random output or a random input. Summary of work in progress on this important application of probability theory. Chapters on inventories, dams, and statistical methods of computation.
- G
61-00785
- Elliott, A. & J. H. Dickson** (1959)
514 p.
Laboratory instruments : their design and application
- NE 1952 Elliott, A. & J. H. Dickson, with additional useful new sections.

- Francis, E. G. et al.** (1959) G
61-00786
London University, Athlone P., 524 p.

Isotopic tracers: a theoretical and practical manual for biological students and research workers

NE 1954 Francis, E. G. et al. Presents theoretical principles and practical applications of methodology of stable and radioactive isotopes. Much enlarged and revised edition. References up to 1957.

- Dowdeswell, W. H.** (1959) MF
61-00787
London, Methuen, 209 p.
Animal ecology

NE 1952 Dowdeswell, W. H.

- Donászy, E.** (1959) F
61-00788
Budapest, 425 p.

Das Leben des Szelider Sees (The life in Lake Szelid)

Summary of the ecological-hydrobiological studies of the lake. Contains 4 parts: history of the investigations: the environment: ecology; systematic account of the fauna and flora.

- Aario, L. & H. Janus** (1958)* G
61-00789
Braunschweig, G. Westerman Verlag, 135 p.
Biologische Geographie (Biological geography)

Ill., bibliography.

- Furon, R.** (1958)* G
61-00790
Paris, Masson et Cie., 167 p.

Causes de la répartition des êtres vivants: paléogéographie, biogéographie dynamique (Causes of distribution of living organisms: paleogeography, dynamics, biogeography)

- Rouch, J.** (1960) M
61-00791
Puntal, 7 (70): 16-9

El Mediterráneo—La temperatura de las aguas superficiales y profundas (The Mediterranean—Surface and depth temperature)

Brief considerations on Mediterranean temperatures.

- Anon.** (1960) F
61-00792
Bull. Sport Fish. Inst., (98): 3-7
Warmwater river fisheries at dams

Discusses research on and management of reservoirs, their inlets and tailwaters, and incl. diagrams of seasonal changes at reservoirs with shallow and deep water outlets.

REFERENCES

- G
61-00793
- Anderson, T. W. (1958)**
New York, J. Wiley & Sons, 374 p.
Introduction to multivariate statistical analysis

Most of material previously accessible only in widely scattered journal articles ; here it is unified. Theory is developed systematically and rigorously. Describes the multivariate normal distribution and shows how the parameters can be estimated. Criteria for testing hypotheses concerning one normal distribution or several are given, together with their sampling distributions. Recent and advanced developments are described in final chapters.

- G
61-00794
- Blom, G. (1959)**
New York, J. Wiley & Sons, 174 p.
Statistical estimates and transformed beta-variables

Treatise on theory and application of order statistics : also discusses several problems in theory of estimation.

- G
61-00795
- Chernoff, H. & L. E. Moses (1959)**
New York, J. Wiley & Sons, 364 p.
Elementary decision theory

Elementary textbook approaches statistics as the science of decision making under uncertainty.

- G
61-00796
- Cochran, W. G. & G. M. Cox (1957)**
New York, J. Wiley & Sons, 617 p.
Experimental design

2nd ed. Working manual revised and expanded to take into account recent developments. New sections deal with : Sequential experimentation ; Multiple comparisons ; Designs for estimating residual effects when treatments are applied in sequence ; The use of fractional factorial designs in practice ; Designs with factors at more than two levels ; First order designs ; Second order designs ; Methods for determining the optimum combination of factor levels ; The single-factor method.

- G
61-00797
- Ezekiel, M. & K. A. Fox (1959)**
New York, J. Wiley & Sons, 546 p.
Methods of correlations and regression analysis : linear and curvilinear

3rd ed. Primary emphasis is placed upon algebraic methods and methods of computation are presented which are adapted to desk calculators as well as to punched card systems and electronic computers.

- Kullback, S. (1959)** G
61-00798
New York, J. Wiley & Sons, 395 p.
Information theory and statistics

Logarithmic measures of information theory are discussed in a general, probabilistic setting. Discusses the relationship between apparently diverse statistical techniques; simplifies generalization of standard test procedures and experimental designs; views applications to a wide variety of problems as a matter of detail of general procedure rather than a collection of special techniques and intuition; explains the role and the effects of various hypotheses; considers the applicability of information theory to a wide class of hypotheses.

- Lehmann, E. L. (1959)** G
61-00799
New York, J. Wiley & Sons, 369 p.
Testing statistical hypotheses

Systematic account of mathematical theory of hypotheses testing and of the related theory of confidence sets. Incl. principle applications of these theories.

- Luce, R. D. & H. Raiffa (1957)** G
61-00800
New York, J. Wiley & Sons, 509 p.
Games and decisions: introduction and critical survey

Written by mathematicians, but for the behavioral sciences, deals with problems of value—or utility—subjective probability, conflict of interest—game theory—decision making under uncertainty.

- Williams, E. J. (1959)*** G
61-00801
New York, J. Wiley & Sons, 214 p.
Regression analysis

- Moran, P. A. P. (1959)** G
61-00802
New York, J. Wiley & Sons, 110 p.
Probability theory of storage

Two types of problems discussed are: (1) the inventory problems where a store with a random demand and a rule of stocking is considered, and (2) a random input and a rule of release.

- Kozarov, G. (1958)** F
61-00803
Zborn. khidrobiol. Zav., Okhrid, 6 (1) : 8 p.

Sodrzhai na SiO_2 i razvoj na diatomejskata populatsija vo tekot na 1957 godina vo okhridskoto ezero (The SiO_2 content and the development of the population of diatoms in the Lake Ohrid during 1957). Fr

Gives the results of studies of variations of dissolved SiO_2 and the development of the diatom population in the lake.

REFERENCES

- Anon.** (1960) MF
61-00804
Science, 131 (3414) : 1658-9
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Udonella caligorum, *Entobdella hippoglossi*, and *E. curruca* were identified in a study of 43 Atlantic halibut, *Hippoglossus hippoglossus*. The incidence, distribution, and host specificity of the halibut's monogenetic parasites are discussed.

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 On the morphology and life-history of *Phocanema decipiens* (Krabbe, 1878) Myers, 1959 (Nematoda: Anisakidae)

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In 61-00836 : 1-41

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Ill. taxonomic, distribution and ecological notes. The bibliography, and to some extent the notes, are world-wide in scope.

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Distribution generally, taxonomic notes.

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- Goedheer, J. C.** (1960)
Biochim. biophys. Acta, 38 (3) : 389-99
 Spectral and redox properties of bacteriochlorophyll in its natural state
- Investigates behaviour of bacteriochlorophyll of *Rhodospirillum rubrum*, *Rhodopseudo monas spheroides* and *chromatium* in its natural state with regard to oxidative bleaching, photobleaching and temperature bleaching.

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Biochim. biophys. Acta, 38 (3) : 460-9
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 Describes procedure for purification of alkaline phosphatase from *Escherichia coli* and reports several physical-chemical properties of purified enzyme.
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- Spartà, A.** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 5-9
 Maturità sessuale, uova, sviluppo embrionale, larva alla schiusa e al 2° giorno di vita di *Lepidopus caudatus* White, con cenni sulle variazioni di peso specifico durante lo sviluppo embrionale (Sexual maturity, eggs, embryonic development, larvae when disclosing and at the 2nd day of life of *Lepidopus caudatus* White, with notes on the variations of the specific weight during the embryonic development). En Fr
 News on fishing and sexual maturity periods of *L. caudatus* White are given with description of eggs, embryonic development, larvae at moment of their hatch and at their 2nd day of life. Mention also is given on variations of specific gravity of eggs during their embryonic development.

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- Cognetti, G. & M. Santarelli** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 10-20

Ricerche sulle zoocenosi bentoniche del Golfo di Napoli—2. La cosiddetta Secca di San Giovanni a Teduccio (Investigations on the benthic zoo-coenoses of the Bay of Naples—2. The so-called Secca di San Giovanni a Teduccio). En Fr

On the bottom of the sea off S. Giovanni a Teduccio rocks and lower zones of mud and sand alternate perpendicular to the coast. According to the spp. collected and listed in the work, a precise comparison between the population of the two facies at the same level was made.

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61-00856
- De Angelis, C. M. & R. della Valle** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 21-43

Il ciclo stagionale del plancton in rapporto alle condizioni fisico-chimiche del Mar Piccolo e del Mar Grande di Taranto (The seasonal cycle of plankton in relation to the physico-chemical conditions of the Mar Piccolo and the Mar Grande at Taranto). En Fr

Describes the peculiar geographical conditions of Mar Grande and Mar Piccolo of Taranto. Material of the present preliminary study and seasonal cycle of plankton in relation to physical-chemical conditions of waters are also pointed out.

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61-00857
- Moroni, A.** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 44-58

Piano e metodi per uno studio sistematico dei laghi del versante N. dell'Appennino Settentrionale (Plan and methods of a systematic study of the north side of the northern Apennines). En Fr De

Reviews the studies of geographical biological-geographical and biological character, which have been made over Italian lakes with special reference to the lake basins of the northern Apennines. Divides the whole northern slope of the northern Apennines—Colle di Cadibona, Bocca Seriola—into 25 sections of study, and discusses the conception of "lake" as it appears from the bibliographical study. The method of investigation is divided into three fundamental moments: (1) cartographic and bibliographic study; (2) "on the ground" work; (3) analysis of geographical, geological, and biological data.

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61-00858
- Anichini, C.** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 59-94

Risultati delle ricerche planctonologiche effettuate nella stazione fissa di Cagliari—1° semestre. Luglio-Dicembre 1957. Anno Geofisico Internazionale (Results of the planktonological investigations carried out at the permanent experiment station of Cagliari—First semester. July-December 1957. International Geophysical Year). En Fr

Compares the quantitative results obtained with two types of plankton nets: the Italian model IGY and the model Trégoubhoff net.

Arena, P. (1959)M
61-00859*Boll. Pesca Piscic. Idrobiol.*, 14 (1) : 95-9

A proposito di un arpione rinvenuto su un tonno pescato in Tunisia e descritto da Heldt nel 1932—Arpioni in uso nello Stretto di Messina (A propos of a harpoon found on a tuna fish, caught in Tunisia and described by Heldt in 1932—Harpoons in use in the Strait of Messina). En Fr

Describes the harpoons used in the Messina Strait on swordfish and tuna fishing, in order to make a sure identification of the first mentioned and to state its place of origin.

Cavaliere, A. (1959)M
61-00860*Boll. Pesca Piscic. Idrobiol.*, 14 (1) : 100-6

Su di un raro esemplare di *Nemichthys scolopaceus* Richardson rinvenuto sulla spiaggia di Ganzirri (Messina) (On a rare specimen of *Nemichthys scolopaceus* collected on the beach of Ganzirri, Messina). En Fr

A rare example of *N. scolopaceus* Rich., found in a perfect state of conservation is described and also drawn. Hints on the distribution of ciatiform organs are given.

Marcolini, B. M. (1959)F
61-00861*Boll. Pesca Piscic. Idrobiol.*, 14 (1) : 107-48

Limnologia dei laghi artificiali—5. Condizioni chimico fisiche comparate di alcuni laghi alpini artificiali (Limnology of artificial lakes—5. Chemico-physical conditions in comparison to some artificial alpine lakes). En Fr

Presents physico-chemical data on 5 hydroelectric reservoirs.

Riedel, A. (1958)F
61-00862*Ann. zool., Warszawa*, 17 (11) : 383-424

Materialien zur Kenntnis der Zonitiden (Gastropoda) des Kaukasus und der Krim (Data on the knowledge of Zonitidae, Gastropoda, from the Caucasus and Crimea)

Wurtz-Arlet, J. (1959)F
61-00863*Bull. franç. Piscic.*, 32 (195) : 41-5

Toxicité des détergents anioniques vis-à-vis des alevins de truite commune (Toxicity of anionic detergents and the larvae and fingerlings of common trout)

Results of observations and experiments.

Morava, F. (1959)F
61-00864*Bull. franç. Piscic.*, 32 (195) : 46-9

"*Tilapia mossambica* Peters" source de protéine et de graisse aux tropiques (Tilapia mossambica Peters source of protein and fat in the tropics)

A study of the nutritive value of the sp.

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61-00865

Anon. (1959)

Bull. franç. Piscic., 32 (195) : 50-1

Comité Scientifique de la Station Central d'Hydrobiologie appliquée
(Scientific Committee of the Central Station of applied hydrology)

Report of activities of different regional stations.

F

61-00866

J.S. (1959)

Bull. franç. Piscic., 32 (195) : 67-8

Les facilités offertes par les sacs en polyéthylène pour le transport des
poissons vivants (The facilities offered by polyethylen bags for the transport
of live fish)

A note on transportation of several spp. in polyethylen bags.

F

61-00867

Perche, G. (1959)

Bull. franç. Piscic., 32 (195) : 68-72

Eaux closes peuplées exclusivement de brochets (Closed waters stocked
exclusively with pike)

Results of studies conducted in Lake Chain.

M

61-00868

IUGG (1960)

Chron. U.G.G.I., (27) : 49-80

Contains report of the 3rd meeting of SCOR, within the report of the 11th
meeting of the Executive Board of ICSU.

MF

61-00869

Henrotte, J. G. (1960)

Biochim. biophys. Acta, 39 (1) : 103-21

Contribution à l'étude des myogènes de carpe et de plie (Contribution to the
study of myogens in the carp and the plaice). En

Comparative study by electrophoresis, ultracentrifuge and fractionation of
striated muscle albumins of *Cyprinus carpio* and *Pleuronectes platessa*; their
isolation and crystallization; comparison with rabbit shows big interspecific
differences in properties of albumins having similar enzymic activity.

F

61-00870

Clemens, H. P. & K. B. Sneed (1959)

Spec. sci. Rep. U.S. Fish Wildl. Serv., (316) : 10 p.

Lethal doses of several commercial chemicals for fingerling channel catfish

Tabular results of experiments with chemicals used in fish management
and agriculture.

- Sand, G. (1959)** MF
61-00871
Rep. F.A.O./E.T.A.P., (1164) : 47 p.
Report to the Government of Thailand on the handling and processing of fish.
- Report on FAO project carried out under UN Expanded Technical Assistance Programme to advise and assist government in introduction of improved practices of fish handling, preservation, distribution, methods of quality testing and procedure for quality control of fishery products and to help in establishment of efficient technological section of departmental fisheries. Gives recommendations for further development. Incl. appendices.
- McArthur, I. S. (1959)** M
61-00872
Rome, FAO, 63 p.
Report to the Government of the Republic of Ireland on the development of the sea fishery industries
- Report on FAO project carried out under UN Expanded Technical Assistance Programme. Reviews industry and advises on measures required to increase catching power and processing, to facilitate marketing and to attract the necessary capital. With appendices; (1) fishermen's training in Nova Scotia; (2) fishes of Ireland; (3) present and potential fishing grounds for selected spp.
- Uda, M. (1959)** MF
61-00873
Mimeo, 96 p.
The fisheries of Japan
- Texts of lectures given at seminars at Nanaimo, Sep. 1958–May 1959. Special reference to influence of oceanographic factors on fish and fisheries.
- Griffiths, R. C. (1960)** M
61-00874
Bull. interam. trop. Tuna Comm., 4 (3) : 41–136
A study of measures of population density and of concentration of fishing effort in the fishery for yellowfin tuna, *Neothunnus macropterus*, in the eastern tropical Pacific Ocean, from 1951 to 1956. *En Es*
- Ci 28-3562BO & 1956 J. A. Gulland. Catch and effort statistics, from 1951 to 1956 used to compute: (1) two indices of average population density; (2) an index of concentration of effort on areas of greatest density of available yellowfin. These three indices were then used to determine: (i) quarterly and annual variation in each of them; (ii) the relationship between the two indices of density; (iii) the relationship of each of the indices to the number of exploited one-degree rectangles, and applies methods of 28-3562BO & 1956 Gulland, J. A.
- Tsuruta, S. & T. Satow (Ed.) (1958)** MF
61-00875
Shimonoseki Coll. of Fishery, Terminology of fisheries, English-Japanese
- En-Ni dictionary in alphabetic order of English words, in two sections, the first strictly concerned with fisheries aquatic sciences, the second with general terms—economics, politics, equipment names, organizations—Page index to Japanese terms. Conversion tables of units.

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Cah. océanogr., 11 (2) : 101-34
 Essai en vue d'une théorie d'Ekman généralisée (Considerations of a generalized theory of Ekman)
 An account of the theory of marine currents.
- M
61-00877
- Anon.** (1959)
Cah. océanogr., 11 (2) : 135-8
 Flotteurs-témoins de courant (Floating bottles—indicators of currents)
 Table of recoveries of drift bottles.
- MF
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- Kreuzer, R.** (1960)
 Rome, FAO, 8 p.
 Report on a preliminary study on fish handling and processing in Egypt
 Incl. short note on fisheries resources and fish supply.
- MF
61-00879
- Galtsoff, P. S.** (1960)
Fish Leaflet, Wash., (490) : 17 p.
 Sponges
 A semi-popular review of this group.
- F
61-00880
- Weidlein, W. D.** (1960)
Adm. Rep. Int. Fish. Calif., (60-5) : 61 p.
 Six catchable trout studies conducted in region 4 in 1958
 Presents data and methodology for evaluating stocking of six rivers with catchable sized trout.
- MF
61-00881
- Round, F. E.** (1960)
Comment. Biol., Helsinki, 21 (1) : 21 p.
 The composition of some algal communities living in rock pools on skerries near the Zoological Station at Tvärminne, S. Finland
- F
61-00882
- Round, F. E.** (1960)
Comment. Biol., Helsinki, 21 (2) : 33 p.
 The algal flora of the Tornionjoki, Muonionjoki and Könkämäeno in north Finland
 Description of the algal communities and checklist of the algae found in different localities.

- Hartt, A. C.** (1959) MF
61-00883
Circ. Fish. Res. Inst. Univ. Wash., (106) : 99 p.
 Movement of salmon in the North Pacific Ocean and Bering Sea as determined by tagging 1956-1958

Issued also as : *INPFC Doc.*, (327).

- Anon.** (1959) M
61-00884
Circ. Fish. Res. Inst. Univ. Wash., (108) : 9 p.
 Tables of returns of United States tags in 1959 from U.S. tagging experiments of 1956, 1957, 1958 and 1959 (through October 20, 1959)

Issued also as : *INPFC Doc.*, (335).

- Anon.** (1959) M
61-00885
Circ. Fish. Res. Inst. Univ. Wash., (108A) : 2 p.
 Table of additional returns of United States tags in 1959 from United States experiments of 1957, 1958, and 1959, and table of corrections (through Nov. 16, 1959)

Co 61-00884. Issued also as: *INPFC Doc.*, (335A).

- LaLanne, J.** (1959) MF
61-00886
 Seattle, Wash., Bureau of Commercial Fisheries, 6 p.
 Progress report on chum salmon morphological studies

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61-00887
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- Štěpánek, V., M. Štěpánek & J. Chalupa** (1959) F
61-00888
Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 221-38
 Limnological study of the reservoir Sedlice near Želiv—5. Relation of organism counts to dissolved oxygen content. Ru Cs

- Štěpánek, M.** (1959) F
61-00889
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 Limnological study of the reservoir Sedlice near Želiv—6. Meteorological part. Sunshine records. Ru Cs



F

61-00890

Štěpánek, M. & E. Červenková (1959)

Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 317-62

Limnologicheskie issledovaniia vodokhranilishcha Sedlitse u Zheliva—8. Kolichestvennaia kharakteristika gorizontalnogo raspredeleniia zooplanktona po otdel'nykh vodokhranilishcha Sedlitse (Protozoa, Rotatoria, Crustacea) (Limnological study of the reservoir Sedlice near Želiv—8. Horizontal distribution of zooplankton in different sections of the reservoir (Protozoa, Rotatoria, Crustacea)). En Cs

F

61-00891

Štěpánek, M. (1959)

Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 363-430

Limnological study of the reservoir Sedlice near Želiv—9. Transmission and transparency of water. Ru Cs

F

61-00892

Sládeček, V., L. Fiala & A. Sládečková (1959)

Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 431-595

Limnologische Forschungen am Stausee Pastviny mit besonderer Berücksichtigung des Einflusses eines Kraftwerkes (Limnological investigations on the Pastviny reservoir, with special consideration of the influence of a power plant). Ru Cs

MF

61-00893

Van Pel, H. (1961)

S. Pacif. Bull., 11 (1) : 20-2

SPC fisheries investigation in western Samoa

Brief report of South Pacific Commission's survey of present and potential development of fishery industries.

M

61-00894

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (8) : 473

DORS/60-166. Décret C.P. 1960-493 modifiant le règlement de pêche de la Nouvelle-Écosse, en vertu de la loi sur les pêcheries.—13 avril 1960 (SOR/60-166. Order in Council P.C. 1960-493 amending the Nova Scotia fishery regulations, pursuant to the fisheries act.—13 April 1960)

Fr 61-00500.

MF

61-00895

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (8) : 462-3

SOR/60-167. Order in Council P.C. 1960-494 amending the New Brunswick fishery regulations, made under the fisheries act.—13 April 1960

No person shall set or operate a purse seine (a) from April 15 to November 15, both days incl., within one-half nautical mile of any weir, trap-net or other stationary fishing appliance that is operated under licence, or from November 16 in any year to April 14 in the year following, both days incl., within 2,000 feet of any weir, trap-net or other stationary fishing appliance that is operated under licence.

MF

61-00896

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (8) : 474-5

DORS/60-167. Décret C.P. 1960-494 modifiant le règlement de pêche du Nouveau-Brunswick en vertu de la loi sur les pêcheries.—13 avril 1960 (SOR/60-167. Order in Council P.C. 1960-494 amending the New Brunswick fishery regulations, made under the fisheries act.—13 April 1960)

Fr 61-00895.

F

61-00897

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (8) : 464-7

SOR/60-168. Order in Council P.C. 1960-495 amending the Quebec fishery regulations pursuant to the fisheries act.—13 April, 1960

Fishing prohibitions or restrictions with respect to black bass, maskinonge, smelts, lake trouts, speckled trouts, Arctic charrs and striped bass.

F

61-00898

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (8) : 476-9

DORS/60-168. Décret C.P. 1960-495 modifiant le règlement de pêche du Québec, en vertu de la loi sur les pêcheries.—13 avril 1960 (SOR/60-168. Order in Council P.C. 1960-495 amending the Quebec fishery regulations pursuant to the fisheries act.—13 April 1960)

Fr 61-00897.

F

61-00899

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (9) : 541-4

SOR/60-184. Order in Council P.C. 1960-518 amending the British Columbia fishery regulations, pursuant to the fisheries act.—19 April 1960

Numerous amendments relating to size and quantity of fish that may be caught in certain rivers, methods of fishing, etc.

F

61-00900

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (9) : 558-61

DORS/60-184. Décret C.P. 1960-518 modifiant le règlement de pêche de la Colombie-Britannique, en vertu de la loi sur les pêcheries.—19 avril 1960 (SOR/60-184. Order in Council P.C. 1960-518 amending the British Columbia fishery regulations, pursuant to the fisheries act.—19 April 1960)

Fr 61-00899.

M

61-00901

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (9) : 560-1

SOR/60-191. Order in Council P.C. 1960-571 amending the lobster fishery regulations, made under the fisheries act.—29 April 1960

The amendments relate to the protection of female lobsters, to the specifications of the lobster traps to be used in the province of Newfoundland, and to the description of various lobster fishing districts.

REFERENCES

M

Canada. Laws, Statutes, etc. (1960)

61-00902

Can. Gazette (II), (9) : 577-8

DORS/60-191. Décret C.P. 1960-571 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—29 avril 1960 (SOR/60-191. Order in Council P.C. 1960-571 amending the lobster fishery regulations, made under the fisheries act.—29 April, 1960)

Fr 61-00901.

F

Canada. Laws, Statutes, etc. (1960)

61-00903

Can. Gazette (II), (9) : 562

SOR/60-192. Order in Council 1960-572 amending the Saskatchewan fishery regulations made under the fisheries act. 29 Apr. 1960

No person shall have in his possession more than 90 pounds plus one fish of the spp. that he is permitted to take.

F

Canada. Laws, Statutes, etc. (1960)

61-00904

Can. Gazette (II), (9) : 579

DORS/60-192. Décret C.P. 1960-572 modifiant le règlement de pêche de la Saskatchewan, en vertu de la loi sur les pêcheries.—29 avril 1960 (SOR/60-192. Order in Council 1960-572 amending the Saskatchewan fishery regulations made under the fisheries act. 29 Apr. 1960)

Fr 61-00903.

MF

Canada. Laws, Statutes, etc. (1960)

61-00905

Can. Gazette (II), (10) : 586-9

SOR/60-207. Order in Council P.C. 1960-635 : Fraser River sockeye and pink salmon fishery regulations made under the fisheries act.—12 May 1960

Full details on fishing districts and open seasons.

MF

Canada. Laws, Statutes, etc (1960)

61-00906

Can. Gazette (II), (10) : 604-7

DORS/60-207. Décret C.P. 1960-635 relatif au règlement de 1960 sur la pêche des saumons sockeye et rose du Fraser en vertu de la lois sur les pêcheries.—12 mai 1960 (SOR/60-207. Order in Council P.C. 1960-635 : Fraser River sockeye and pink salmon fishery regulations made under the fisheries act.—12 May 1960)

F

Canada. Laws, Statutes, etc. (1960)

61-00907

Can. Gazette (II), (11) : 633

SOR/60-215. Order in Council P.C. 1960-679 amending the northwest territories fishery regulations made under the fisheries act.—19 May 1960

The amendments provide (a) that the holder of a commercial licence may fish in the waters designated in such licence by operating by himself not more than 15 gill-nets with a total length of not more than 1500 yards and (b) that no person shall fish for, catch or kill any pickerel from the first day of April to 31 May, and any pike from 1 April to 15 May, both days incl. in any year.

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Canada. Laws, Statutes, etc. (1960)

61-00908

Can. Gazette (II), (11) : 653

DORS/60-215. Décret C.P. 1960-679 modifiant le règlement de pêches des territoires du nord-ouest en vertu de la loi sur les pêcheries.—19 mai 1960 (SOR/60-215. Order in Council P.C. 1960-679 amending the northwest territories fishery regulations made under the fisheries act.—19 May 1960)

Fr 61-00907.

M

Canada. Laws, Statutes, etc. (1960)

61-00909

Can. Gazette (II), (11) : 699

SOR/60-227. Order prohibiting trawlers and draggers from part of Gaspé Bay.—24 May 1960.

Pursuant to section 7 of the otter trawl fishing regulations made under the fisheries act and established by order in Council C.P. 1954-1797 of 23 Nov. 1954.

M

Canada. Laws, Statutes, etc. (1960)

61-00910

Can. Gazette (II), (11) : 724

DORS/60-227. Ordonnance interdisant les chalutiers et petits chalutiers dans une partie de la baie de Gaspé.—24 mai 1960 (SOR/60-227. Order prohibiting trawlers and draggers from part of Gaspé Bay.—24 May 1960)

Fr 61-00909.

M

Canada. Laws, Statutes, etc. (1960)

61-00911

Can. Gazette (II), (11) : 641

SOR/60-220. Order in Council P.C. 1960-712 amending the lobster fishery regulations made pursuant to the fisheries act.—26 May 1960

Amends the dates of closed seasons in certain districts.

M

Canada. Laws, Statutes, etc. (1960)

61-00912

Can. Gazette (II), (11) : 661

DORS/60-220. Décret C.P. 1960-712 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—26 mai 1960 (SOR/60-220. Order in Council P.C. 1960-712 amending the lobster fishery regulations made pursuant to the fisheries act.—26 May 1960)

Fr 61-00911.

MF

Canada. Laws, Statutes, etc. (1960)

61-00913

Can. Gazette (II), (11) : 642-82

SOR/60-221. Order in Council P.C. 1960-713 establishing the Newfoundland fishery regulations, pursuant to the fisheries act.—26 May 1960

Detailed regulations concerning fishing and fishing licenses, salmon fishery areas, codfishery areas, etc.

REFERENCES

MF

61-00914

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (11) : 662-707

DORS/60-221. Décret C.P. 1960-713 établissant le règlement de pêche de Terre-Neuve en vertu de la loi sur les pêcheries.—26 mai 1960 (SOR/60-221. Order in Council P.C. 1960-713 establishing the Newfoundland fishery regulations, pursuant to the fisheries act.—26 May 1960)

Fr 61-00913.

F

61-00915

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 768

SOR/60-243. Order in Council P.C. 1960-744 relative to the gaspereau fishing in the Tusket River, Nova Scotia.—2 June 1960

Issued by the Governor General in council pursuant to section 34 of the fisheries act.

F

61-00916

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 797

DORS/60-243. Décret C.P. 1960-744 réglementant la pêche au gasparot dans la rivière Tusket, Nouvelle-Écosse.—2 juin 1960 (SOR/60-243. Order in Council P.C. 1960-744 relative to the gaspereau fishing in the Tusket River, Nova Scotia.—2 June 1960)

Fr 61-00915.

MF

61-00917

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 769

SOR/60-244. Order in Council P.C. 1960-745 amending the British Columbia fishery regulations pursuant to the fisheries act.—2 June 1960

With certain exceptions for the year 1960 only, no person while using commercial fishing gear shall fish for, take or have in his possession coho or blueback salmon from January 1st to June 14th, both days incl., in any year.

MF

61-00918

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 798

DORS/60-244. Décret C.P. 1960-745 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries (SOR/60-244. Order in Council P.C. 1960-745 amending the British Columbia fishery regulations pursuant to the fisheries act.—2 June 1960)

Fr 61-00917.

F

61-00919

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 770-3

SOR/60-245. Order in Council P.C. 1960-746 amending the Manitoba fishery regulations pursuant to the fisheries act.—2 June 1960

The main amendments relate to fishing for commercial purposes in Lake Winnipeg.

F
61-00920**Canada. Laws, Statutes, etc. (1960)***Can. Gazette (II)*, (12) : 799-802

DORS/60-245. Décret C.P. 1960-746 modifiant le règlement de pêche du Manitoba en vertu de la loi sur les pêcheries.—2 juin 1960 (SOR/60-245. Order in Council P.C. 1960-746 amending the Manitoba fishery regulations pursuant to the fisheries act.—2 June 1960)

Fr 61-00919.M
61-00921**Canada. Laws, Statutes, etc. (1960)***Can. Gazette (II)*, (12) : 774

SOR/60-246. Order in Council P.C. 1960-747 amending the fish inspection regulations pursuant to the fish inspection act.—2 June 1960

Except where the Minister of Fisheries permits the use of bags for holding shucked scallops, only metal containers approved by an inspector shall be used for receiving, washing and holding shucked scallops on a fishing vessel.

M
61-00922**Canada. Laws, Statutes, etc. (1960)***Can. Gazette (II)*, (12) : 803

DORS/60-246. Décret C.P. 1960-747 modifiant le règlement sur l'inspection du poisson en vertu de la loi sur l'inspection du poisson.—2 juin 1960 (SOR/60-246. Order in Council P.C. 1960-747 amending the fish inspection regulations pursuant to the fish inspection act.—2 June 1960)

Fr 61-00921.M
61-00923**Canada. Laws, Statutes, etc. (1960)***Can. Gazette (II)*, (12) : 806

SOR/60-257. Order in Council P.C. 1960-761 amending the large fishing vessel inspection regulations made under the Canada shipping act.—2 June 1960

Concerns life-saving equipment.

M
61-00924**Canada. Laws, Statutes, etc. (1960)***Can. Gazette (II)*, (12) : 836

DORS/60-257. Décret C.P. 1960-761 modifiant le règlement sur l'inspection des grands bateaux de pêche en vertu de la loi sur la marine marchande du Canada. 2 juin 1960 (SOR/60-257. Order in Council P.C. 1960-761 amending the large fishing vessel inspection regulations made under the Canada shipping act.—2 June 1960)

Fr 61-00923.

REFERENCES

M

Canada. Laws, Statutes, etc. (1960)

61-00925

Can. Gazette (II), (12) : 814

SOR/60-263. Order in Council P.C. 1960-791 amending the coastal fisheries protection regulations made under the coastal fisheries protection act.—11 June 1960

Subject to the customs and immigration laws of Canada, and with the permission of the Minister of Fisheries or an officer designated by him, a foreign vessel may enter any Canadian port (a) to discharge or take on board a crew member or passenger of that vessel or of any other fishing vessel registered under the same national flag; or (b) to unload, land, re-embark or trans-ship any equipment other than fishing gear, of that vessel or of any other fishing vessel registered under the same national flag.

M

Canada. Laws, Statutes, etc. (1960)

61-00926

Can. Gazette (II), (12) : 844

DORS/60-263. Décret C.P. 1960-791 modifiant le règlement sur la protection des pêcheries côtières en vertu de la loi sur la protection des pêcheries côtières.—11 juin 1960 (SOR/60-263. Order in Council P.C. 1960-791 amending the coastal fisheries protection regulations made under the coastal fisheries protection act.—11 June 1960)

Fr 61-00925.

MF

Canada. Laws, Statutes, etc. (1960)

61-00927

Can. Gazette (II), (12) : 815-6

SOR/60-264. Order in Council P.C. 1960-792 amending the northwest territories fishery regulations pursuant to the fisheries act.—11 June 1960

Concerns summer fishing and power of fishery officers to prohibit commercial fishing in the areas where prescribed limits are reached or about to be reached.

MF

Canada. Laws, Statutes, etc. (1960)

61-00928

Can. Gazette (II), (12) : 845-946

DORS/60-264. Décret C.P. 1960-792 modifiant le règlement de pêche des territoires du nord-ouest en vertu de la loi sur les pêcheries.—11 juin 1960 (SOR/60-264. Order in Council P.C. 1960-792 amending the northwest territories fishery regulations pursuant to the fisheries act. —11 June 1960)

Fr 61-00927.

M

Canada. Laws, Statutes, etc. (1960)

61-00929

Can. Gazette (II), (13) : 906

SOR/60-298. Order in Council P.C. 1960-894 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—29 June 1960

Revokes section relative to the County of Halifax.

M

Canada. Laws, Statutes, etc. (1960)

61-00930

Can. Gazette (II), (13) : 937

DORS/60-298. Décret C.P. 1960-894 modifiant le règlement de pêche de la Nouvelle-Écosse en vertu de la loi sur les pêcheries.—29 juin 1960 (SOR/60-298. Order in Council P.C. 1960-894 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—29 June 1960)

Fr 61-00929.

M

Denmark. Laws, Statutes, etc. (1960)

61-00931

Lovtidende A, (7) : 264

Bekendtgørelse Nr 75 om fredning af hvaler (Order No. 75 relative to the protection of whales.—25 February 1960)

All whales in Danish waters, except for waters round the Faroe Islands and Greenland shall be protected. Stranded whales unable to free themselves without aid shall be killed only under police supervision as far as possible.

F

Finland. Laws, Statutes, etc. (1959)

61-00932

Finlands FörfattnSaml., (325-332) : 751

Föroddning No: 328 om bringande i kraft av överenskommelsen med Norge angående rätten till fiske vid Alaköngas i Tana älv (Decree No. 328 on the coming into force of the agreement between Norway and Finland relative to fishing rights in the Tana River at Alaköngäs.—17 July 1959)

Decree states that the agreement relative to the fishing rights in the Tana River as signed on 2 Jun. 1959 between Norway and Finland shall come into force on the date specified in the agreement, the text of which is issued as a separate publication.

M

France. Laws, Statutes, etc. (1960)

61-00933

J. off. Rép. franç., (83) : 3224

Arrêté du 30 mars 1960 autorisant la fabrication de conserves de flétan (Order authorizing the manufacture of halibut conserves.—30 March 1960)

Adds halibut to the list in the order of 9 May 1952 authorizing the manufacture of preserves, semi-preserves and cooked dishes from certain varieties of fish and sea fauna.

M

France. Laws, Statutes, etc. (1960)

61-00934

J. off. Rép. franç., (103) : 4008

Décret n° 60-417 du 26 avril 1960 portant modification du décret du 10 mai 1954 relatif aux engins de sauvetage des navires de commerce, de pêche et de plaisance d'une jauge brute égale ou supérieure à 500 tonneaux (Decree No. 60-417, amending decree of 10 May 1954, relating to rescue equipment on commercial, fishing and pleasure craft of 500 tons or more.—26 April 1960)

Governs installation of lifeboats on fishing craft.

MF

Greece. Laws, Statutes, etc. (1960)

61-00935

Ephem. Kub., Greece (I), (275) : 2331-2

Diatagm. peri ruthmiseōs tes upo tōn planodiōn ichthyopōlōn diathéseōs tōn alieumatōn (Royal decree regulating the sale of certain types of fish by local fishermen.—7 December 1959)

REFERENCES

M

61-00936

Mexico. Laws, Statutes, etc. (1960)

Diario ofic., Mexico, (29) : 4-5

Acuerdo que dispone la importación de pescados, crustáceos, mariscos o moluscos en conserva, frescos, refrigerados o congelados, queda sujeta a previo permiso de la Secretaría de Industria y Comercio inclusive para las zonas y perímetros libres del país (Order subjecting the import of fish, crustaceans, shellfish and molluscs, tinned, fresh, refrigerated or frozen, to licence of the Secretariat of Industry and Commerce, including the free zones and areas of the country.—29 April 1960)

M

61-00937

Norway. Laws, Statutes, etc. (1959)

Norsk Lovtid., (40) : 1170

Kongelig resolusjon om ikrafttreden av lov av 28. mai 1959 om kvalitetskontroll med fisk og fiskevarer o.a. (Royal resolution relative to the coming into force of the act of 28 May 1959 on quality control of fish and fisheries products, etc.—30 October 1959)

Ad 60-5938. The act as above comes into force as from 1 December 1959.

M

61-00938

Norway. Laws, Statutes, etc. (1959)

Norsk Lovtid., (40) : 1171

Kongelig resolusjon om kontroll av klippfisk som eksporteres (Resolution relative to the quality control of fish and fisheries products, etc.—30 October 1959)

Provides for the control—and where necessary rejection—of clip-fish (split cod) for export, subject to such conditions as may be specified in subsequent statutes.

M

61-00939

Norway. Laws, Statutes, etc. (1959)

Norsk Lovtid., (46) : 1333

Kongelig resolusjon om endr. av S 2 i bestem. om afgift på tørrfisk til fordel for fellesreklame og propaganda for tørrfisknaeringen (frafallelse av avgift på fiskehoder (Resolution relative to joint advertising and propaganda on behalf of dried fish industry.—18 December 1959)

Amends art. 2 of earlier royal resolution of 18 Jul. 1958 on the subject whereby a tax of 1 öre per kg is imposed on all dried fish sold for purposes of advertising and propaganda.

M

61-00940

Norway. Laws, Statutes, etc. (1960)

Norsk Lovtid., (2) : 42

Resolusjon om opphevelse av I og II, S 2, i res. av 21. juni 1957 om kontrollavgifter på fersk og frossen sild og fisk (Royal resolution repealing Parts 1 and 2, S 2, of the resolution of 21 June 1957 relative to inspection control taxes on fresh and frozen herring and other fish.—15 January 1960)

Pursuant to the act of 28 May 1959 relative to quality control of fish and fisheries products.

MF

61-00941

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (46-47) : 65

Lag Nr 46 angående ändrad lydelse av 4 och 21 SS lagen den 1 december 1950 (nr 596) om rätt till fiske (Act No. 46 amending articles 4 and 21 of the act No. 596 of 1 December 1950 relative to fishing rights.—25 March 1960)

The amended articles afford aliens equal rights with Swedish citizens as regards fishing in public waters provided that such aliens have been resident in the country for at least two years.

MF

61-00942

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (46-47) : 66-7

Kungl. Maj:ts Kungörelse Nr 47 angående rätt för utlänning att fiska på allmänt vatten m.m. (Royal order No. 47 relative to the fishing rights of aliens in public waters, etc.—25 March 1960)

Permits citizens of Denmark, Finland, Iceland and Norway to fish in the above waters, with certain exceptions. Other aliens shall be bound to procure an official licence subject to the conditions specified in the text.

F

61-00943

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (130-133) : 333-9

Lag Nr 130 om fiskevårdsområden (Act No. 130 relative to fisheries protection areas.—5 May 1960)

Specifies general regulations, and conditions regarding the establishment of such area and the period of such protection, grant of fishing rights in the areas, compulsory contributions payable by owners of the areas, etc.

F

61-00944

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (130-133) : 339-40

Lag Nr 131 angående ändring i lagen den 1 december (nr 596) 1950 om rätt till fiske (Act No. 131 amending the act No. 596 of 1 December 1950 relative to fishing rights.—5 May 1960)

The amendments refer to fishing rights in regard to jointly owned properties.

F

61-00945

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (130-133) : 340-1

Lag Nr 132 angående ändrad lydelse av 3 S lagen den 27 juni 1957 (nr 390) om fiskearrenden (Act No. 132 amending article 3 of the act No. 390 of 27 June 1957 relative to fishing rights lease contracts.—5 May 1960)

Fishing rights concessions shall be granted for a term of not less than five years or for the period of the lessee's lifetime.

REFERENCES

MF

61-00946

Sweden, Laws, Statutes, etc. (1960)

Svensk FörfSamml., (125-127) : 327

Kungl. Maj:ts förordning nr 125 angående fortsatt giltighet av förordningen den 30 maj 1952 (nr 320) om viss reglering av handeln med fisk, m.m. (Royal decree No. 125 extending the validity of decree No. 320 of 30 May 1952 governing trade in fish.—13 May 1960)

MF

61-00947

Sweden, Laws, Statutes, etc. (1960)

Svensk FörfSamml., (125-127) : 327-8

Kungl. Maj:ts förordning nr 126 om fortsatt giltighet av förordningen den 5 juni 1953 (nr 372) angående reglering av införseln av vissa slag av fisk och skaldjur (Royal decree No. 126 extending the validity of decree No. 372 of 5 June 1953 governing the import of certain kinds of fish and shellfish.—13 May 1960)

MF

61-00948

Sweden, Laws, Statutes, etc. (1960)

Svensk FörfSamml., (125-127) : 328

Kungl. Maj:ts förordning nr 127 om fortsatt giltighet av förordningen den 5 juni 1953 (nr 374) angående reglering av utförseln av vissa slag av fisk och skaldjur m.m. (Royal decree No. 127 extending the validity of decree No. 374 of 5 June 1953 governing the export of certain kinds of fish and shellfish.—13 May 1960)

M

61-00949

U.S. Laws, Statutes, etc. (1960)

Fed. Reg. nat. Arch. U.S., 25 (67) : 2894-8

Code of federal regulations, title 50: Wildlife, chapter 3: International regulatory agencies (fishing and whaling)—Part 301: Pacific halibut fisheries.—24 March 1960

Full text of new regulations superseding all previous issues. Regulations of the International Pacific Halibut Commission adopted pursuant to the Pacific Halibut Fishery Convention of 2 Mar. 1953 between the US and Canada.

M

61-00950

U.S. Laws, Statutes, etc. (1960)

Fed. Reg. nat. Arch. U.S., 25 (67) : 2893-4

Code of federal regulations, title 50: Wildlife, chapter 1: Fish and Wildlife Service, Department of the Interior, subchapter H: Whaling—Part 151: Whaling provisions. Whale catchers attached to land stations taking baleen whales.—31 March 1960

Amendment of regulations under the whaling convention act of 1949: It is forbidden to use a whale catcher attached to a land station for the purpose of taking or killing blue whales, fin whales, humpback whales, sei whales or minke whales, except during the period 16 Apr. to 15 Oct. following, both days incl.

M

61-00951

U.S. Laws, Statutes, etc. (1960)*Fed. Reg. nat. Arch. U.S.*, 25 (81) : 3577

Code of federal regulations, title 50 : Wildlife, chapter 1 : Fish and Wildlife Service, Department of the Interior, subchapter 1 : Northwest Atlantic Commercial Fisheries—Part 155 : haddock and cod fisheries. Miscellaneous amendments.—22 April 1960

Amendments to section 155.3h (2) (iii) concerning application of $4\frac{1}{2}$ in. min. mesh in area 4 and printers' error of importance corrected in 155.3(d).

MF

61-00952

U.S. Laws, Statutes, etc. (1960)*Fed. Reg. nat. Arch. U.S.*, 25 (88) : 3895-7

Code of federal regulations, title 50 : Wildlife, chapter 1 : Fish and Wildlife Service, Department of the Interior, subchapter K : processed fishery products, processed products thereof, and certain other processed food products—Part 178 : United States standards for grades of frozen salmon steaks.—29 April 1960

Product description, style and grades; dimensions; factors of quality and grade; definitions, etc.

F

61-00953

Podubský, V. (1958)*Ann. Acad. tchécosl. Agric.*, 3 (31) : 69-78

Kolisání inkubační doby při líhnutí jiker (Fluctuations of the developing time in fish eggs)

LZ 4 (1) : 134. Determination of "degree-days"—development time at different temperatures—of *Coregonus lavaretus*, *Salmo trutta*, *Salmo gairdneri*, *Salvelinus fontinalis*, *Thymallus thymallus*, *Esox lucius* and *Lucioperca sandra*.

F

61-00954

Anon. (1958)*Allg. FischZtg.*, 83 : 73-4

Besatz und natürliche Fortpflanzung bei Renken in bayerischen Seen (Stocking and natural propagation of white fish in Bavarian lakes)

LZ 4 (1) : 151.

M

61-00955

IAEA. Board of Governors (1960)

IAEA GOV/617, mimeo, 5 p.

Scientific collaboration with the Government of Monaco—Memorandum by the Director General

Working document; appendix gives text of draft agreement between IAEA, Govt. of Monaco and the Oceanographic Institute concerning research on disposal of radioactive wastes in the marine environment; annex A contains the agreed research programme to "obtain better knowledge of chemical, physical and biological factors influencing safe disposal of radioactive wastes, first in the Mediterranean and secondly in selected areas of the open sea and adjoining coastal waters" to serve as guide to countries contemplating marine disposal of wastes. Programme incl. survey of literature on marine ecology and identification of critical organisms and their physiology; oceanography; sampling and counting techniques for phytoplankton; food chain analysis; physical processes in the sea. Annex B lists facilities and equipment available. Incl. Corrigenda: IAEA Gov/617/Corr. 3, 1 p.

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Advanc. Sci., Lond., 16 (64) : 441-52
The work of Alexander Von Humboldt and Carl Ritter: a centenary address
Biography incl. reference to Humboldt's contributions to oceanography—
use of isopleths, average sea depths.
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61-00957
- Hale, L. J.** (1960)
Advanc. Sci., Lond., 17 (66) : 106-9
Marine aquaria in the laboratory
Discusses reasons and methods for arranging for circulation of water in
small aquaria.
- M
61-00958
- Darbyshire, J.** (1960)
Advanc. Sci., Lond., 17 (66) : 149-57
Microseisms and storms
Article on analysis of sea-waves; ill. of instruments.
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61-00959
- Bourcart, J. et al.** (1960)
C.R. Acad. Sci., Paris, 251 (15) : 1443-5
Les sédiments des vallées sous-marines au large dans le Golfe de Gênes
(The sediments of submarine valleys in the region of the Gulf of Genoa)
Ci 582043. 'Calypso' exploration.
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- Berthois, L. & J. Morize** (1960)
C.R. Acad. Sci., Paris, 251 (15) : 1543-5
Première évaluation du débit solide total de la Loire (First evaluation of
total solids debt of the Loire)
Movements of suspended matter and sedimentation in this French river and
its estuary.
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61-00961
- Bernard, F.** (1960)
C.R. Acad. Sci., Paris, 251 (15) : 1585-92
Rapports caractéristiques entre les principaux unicellulaires du plancton,
dénombrés en sept régions des mers chaudes (Characteristic relations between
the principal unicellular plankton organisms, enumerated in seven regions of
warm seas)
Regions of Mediterranean compared with central Indian Ocean, and sea off
Senegal and Azores, with respect to *Cyclococcolithus*, *Syracosphaeraceae*,
Exuviella, flagellates, *Nostoc*. Variations in dominance relations with depth,
down to 3000 m.
- M
61-00962
- Steers, J. A.** (1960)
Advanc. Sci., Lond., 17 (65) : 7-15
Defence against the sea
Article discusses problems of coast erosion in various parts of the world,
wave action etc.

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61-00963
- Atkins, W. R. G.** (1959)
Advanc. Sci., Lond., 16 (62) : 124-35
Plants on land and in the oceans

Presidential address to section K of British Association, recounting work of author and others at Plymouth on marine production and other aspects of marine biology.

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- Anon.** (1961)
S. Pacif. Bull., 11 (1) : 33-4, 59
SPC boat building trainees making excellent progress

Report on progress of South Pacific Commission's boat building course being held in the British Solomon Islands Protectorate.

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Ecology, 41 (2) : 287-92
Metabolism of an antarctic fish and the phenomenon of cold adaptation

Compares the metabolic level of an antarctic fish *Trematomus bernacchii* adapted at temperatures of -2° to 0°C to the metabolic levels of several spp. from tropical to arctic, and from warm eurythermal to cold stenothermal, environments.

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- Loesch, H.** (1960)
Ecology, 41 (2) : 292-8
Sporadic mass shoreward migrations of demersal fish and crustaceans in Mobile Bay, Alabama

Describes this phenomenon for first time and erects a hypothetical exploration.

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- Hartman, R. T. & J. H. Graffius** (1960)
Ecology, 41 (2) : 333-40
Quantitative seasonal changes in the phytoplankton communities of Pymatuning reservoir

A study based on five collecting stations in the highly productive Sanctuary Lake portion of Pymatuning reservoir, Pennsylvania.

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Ecology, 41 (2) : 346-57
Comparison of the present vegetation with pollen-spectra in surface samples from Brownington pond, Vermont

- MG
61-00969
- Swan, E. F.** (1960)
Ecology, 41 (2) : 359-60
A cage for the study of growth in sea urchins

Describes construction of one used for *Strongylocentrotus* in New England.

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- Smith, F. E. & E. R. Baylor** (1960)
Ecology, 41 (2) : 360-3
 Bees, *Daphnia*, and polarized light
- Presents a set of simple experiments that will distinguish which of three possible kinds of polarization analyzers is employed by an animal orienting to the polarization plane of overhead light.
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61-00971
- Root, R. B.** (1960)
Ecology, 41 (2) : 369-72
 An estimate of the intrinsic rate of natural increase in the planarian, *Dugesia tigrina*
- A life table and the intrinsic rate of natural increase for laboratory populations of *Dugesia tigrina* feeding on *Daphnia magna* are calculated. The influence on the size of intrinsic rate and other population parameters of reproduction at later time intervals in the life history are evaluated. Important aspects of the life history are discussed.
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Ecology, 41 (2) : 372-5
 A note on population parameters in cases of complex reproduction
- Uses the planarian *Dugesia* to ill. the discussion.
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61-00973
- Heath, J. P.** (1960)
Ecology, 41 (2) : 381
 Penetration of fresh water through two oceanic stream bars
- Describes the phenomenon at two California streams and relates findings to theories on homing of anadromous fishes.
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61-00974
- McManus, L. R.** (1960)
Ecology, 41 (2) : 383-4
 An occurrence of "chimney" construction by the crayfish *Cambarus b. bartoni*
- Describes construction in Catatunk Creek, N.Y.
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Ecology, 41 (2) : 384
 Variations in size of ostracods cultured from dried soil in the laboratory
- Compares these with size of uncultured individuals and expresses doubt of the reliability of new spp. described from laboratory-cultured material and of size as a criterion of spp. differences.
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Ecology, 41 (2) : 385-6
 Living inclusions in the shell of the sea scallop *Placopecten magellanicus*

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 Contents incl. report of the council of the Marine Biological Association, 1959-60; list of members; abstracts of memoirs recording work done at Plymouth Laboratory.
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 A muscle receptor organ in *Eledone cirrhosa*
 Histological study; comparison with other cephalopods.
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J. Mar. biol. Ass. U.K., 39 (3) : 433-44
 Plant hormones in marine phytoplankton, zooplankton and sea water
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J. Mar. biol. Ass. U.K., 39 (3) : 449-58
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- Atkins, D.** (1960)
J. Mar. biol. Ass. U.K., 39 (3) : 459-79
 The ciliary feeding mechanism of the Megathyridae (Brachiopoda), and the growth stages of the lophophore
 Structure of adult lophophores of *Argyrotheca* and *Megathyris*, behaviour of *Argyrotheca cordata* during escape of larvae from brood pouches, growth stages of shell and of lophophore and loop of *Megathyris* are described.

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 On the biology of *Crangon allmani* Kinahan in Northumberland waters
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J. Mar. biol. Ass. U.K., 39 (3) : 509-11
 The identity of the ascidians *Styela mammiculata* Carlisle and *S. clava* Herdman
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 Chemical changes in sea water off Plymouth during 1959
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 A contribution to the biology of *Astrorhiza limicola* (Foraminifera)
- Behaviour, especially feeding, and structure of test of large living specimens from British south coast. Distribution; ecology in N. Sea area.
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 Amphibdellid (Monogenean) parasites of electric rays (Torpedinidae)
- Ci 61-00991. Taxonomy, micro-habitat, attachment, anatomy of *Amphibdelloides* and *Amphibdella* spp. on *Torpedo nobiliana* landed by research vessels at Plymouth. Reviews group as a whole on hosts of other spp. Family Amphibdellidae to replace Amphibdellatidae, with amended diagnosis of 61-00991.

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J. Mar. biol. Ass. U.K., 39 (3) : 605-8
The effect of extremes of temperature on herring larvae

Ci 60-4924. Reared from eggs of herring caught on E. and W. Scottish coasts, 1957. Experiments to (1) determine tolerance range in rearing and acclimatization trials, (2) seek tolerance differences in larvae of spring- and autumn-spawned fish and (3) study hazards of temperature rises in sea caused by weather or effluents. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (135).
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Direct observations on some Manx sublittoral algae

Free-diving observations in Irish Sea. Describes sampling instrument, scraper. Dominance zones of *Saccorhiza*, *Laminaria* and *Cutleria*.
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Exchanges of water between the English and Bristol Channels around Land's End

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61-043me to 61-077me

Malaya and Singapore Fisheries Department. 18/11/60 MF
61-043me
Penang, Malaya. 2 days
Seminar on fishery development planning

AAAS, Pacific Division. 18/6/61 MF
61-044me
Davis, Calif. 6 days
Meeting

American Fisheries Society. Aug. 1961 MF
61-045me
Lafayette, Ind.

Session of fishery papers at the meeting of AIBS (61-034me).

ASAB. 12/7/61 MF
61-046me
Cambridge, U.K. 2 days
Symposium on "Orientation and migration"

Will incl. following papers: T. A. Stuart "Orientation and leaping behaviour of migrating salmonids at falls and obstructions", A. E. Bradfield "Orientated movements of marine molluscs", F. R. Harden-Jones "Fish migration: passive drift or orientated movement?", K. M. Backhouse "Orientation and migration in Pinnepedia and Cetacea".

CCTA/IUCN. 27/9/61 MF
61-047me
Arusha, Africa. 8 days
Symposium on the conservation of nature and natural resources in modern African states

In collaboration with UNESCO and FAO. Amendment to 60-268me.

Chamber of Commerce of Ancona. 24/6/61 MF
61-048me
Ancona, Italy. 16 days
XX Fiera internazionale della pesca e degli sports nautici [21st International Fair of Fisheries and aquatic sports]

Held concurrently with the 7th International nautical exposition. Incl. exhibits by USIS entitled "Mondo marino" [Marine World].

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- FAO.** 6/6/61 M
61-049me
 Washington, D.C. 3 days
 2nd Session of continuing working party on fishery statistics in the North Atlantic area
- FAO.** Sept.-Oct./61 MF
61-050me
 USSR. 5 weeks
 Fisheries seminar and study tour for fishery administrators from the Indo-Pacific and Mediterranean regions
- FAO.** 18/12/1961 M
61-051me
 Rome, Italy. 4 days
 Consultants' meeting on marine biogeography
- FAO.** 9/8-17/10/61 M
61-052me
 Tulagi, British Solomons Islands Protectorate
 Training centre on fishing methods and mechanization for South Pacific Commission countries and territories
- FAO/WHO/IAEA.** 11/12/61 MF
61-053me
 The Hague, Netherlands. 5 days
 Seminar on the agricultural and public health aspects of radioactive contamination in normal and emergency situations
- Great Lakes Research Division.** 17/4/61 F
61-054me
 Ann Arbor, Mich. 2 days
 4th Conference on Great Lakes research
- Gulf States Marine Fisheries Commission.** 19/10/61 M
61-055me
 New Orleans, Louisiana. 3 days
 Meeting
- Hungarian Academy of Sciences/Hungarian Society of Hydrology.** 11/4/61 F
61-056me
 Budapest, Hungary. 4 days
 Meeting on hydrological predictions
- IAEA.** 21/11/61 G
61-057me
 Mexico City, Mexico. 11 days
 Conference on the use of radioisotopes in the animal biology and the medical sciences
- ICNAF.** 21/3/61 M
61-058me
 Lowestoft, U.K. 10 days
 3rd Meeting of mesh assessment working group

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| ICSU. 25/9/61
London, U.K. 4 days
9th General assembly | MG
61-059me |
| IUBS. July/61
Amsterdam, Netherlands.
14th General assembly | MF
61-060me |
| IWC. 24/4/61
Rome, Italy. 13 days
Meeting of ad hoc scientific committee | M
61-061me |
| International Joint Commission U.S.-Canada. Apr./61
Washington, D.C.
Meeting | MF
61-062me |
| International Union for Social Service. 11/5/61
Menton, France. 5 days
European seminar of study and information (Social service for fishermen) | MF
61-063me |
| National Academy of Sciences/National Research Council. 1/5/61
Washington, D.C. 4 days
Conference on ocean wave spectra | M
61-064me |
| Scripps Institution of Oceanography. 14/6/61
La Jolla, Calif. 3 days
Conference on the "Theory of weak and strong interaction" | M
61-065me |
| UNESCO/WMO. 2/10/61
Rome, Italy. 6 days
Symposium on change of climate, with special reference to arid zones

Will incl discussion of theories of climatic change and evidence pertaining to the general circulation of atmosphere and oceans. | GM
61-066me |
| International Union of Biochemistry. 10/8/61
Moscow, USSR. 7 days
5th International congress of biochemistry | G
61-067me |
| USPHS, Taft Sanitary Engineering Center. 19/6/61
Cincinnati, Ohio. 12 days
"Aquatic biology for engineers" (Water pollution training course) | F
61-068me |

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- Marine Biological Association of India.** 3rd week/12/61 M
61-069me
Mandapam, India
Symposium on scombroid fishes

Will cover tunas, billfishes, mackerel, seer fishes.
- National Science Foundation/Office of Naval Research.** 20/10/61 M
61-070me
Baltimore, Md. 2 days
First national shallow water research conference

See also 61-071me and 61-072me.
- National Science Foundation/Office of Naval Research.** 24/10/61 M
61-071me
Tallahassee, Fla. 2 days
First national shallow water research conference

See also 61-070me and 61-072me.
- National Science Foundation/Office of Naval Research.** 27/10/61 M
61-072me
Los Angeles, Calif. 2 days
First national shallow water research conference

See also 61-070me and 61-071me.
- INPFC.** 23/10/61 M
61-073me
Tokyo, Japan. 13 days
Meeting of Committee on biology and research
- Sweden.** 2/11/61 MF
61-074me
Goteborg, Sweden. 11 days
Swedish international fisheries fair
- European Society of Haematology.** 28/8/61 MG
61-075me
Vienna, Austria. 6 days
8th Congress

Will incl. sessions on marking of blood cells with isotopes, blood change through radiations, plasma chemistry.
- ASLO.** 11/9/61 MF
61-076me
Woods Hole, Mass. 5 days
24th Annual meeting
- IUCN.** 11/11/61 MF
61-077me
Morges, Switzerland. 3 days
Meeting of the Executive Board

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60-4924	Ci 61-00993		

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VOLUME 5—EXPLANATION OF COVERAGE AND ARRANGEMENT

9. ERRATA AND ADDENDA to "EXPLANATION OF COVERAGE AND ARRANGEMENT" (contd.)

1. SCOPE AND COVERAGE OF BIBLIOGRAPHY

Insert a second paragraph as follows:

"Volumes 1 and 2 which appeared in mimeographed form during 1958 and 1959 contained references to literature published in 1957 and subsequent years. The printed volumes (Volume 3 on), continue according to the same principle, 1957 being the base year. References to most 1957 and 1958 publications, however, appeared in the mimeographed volumes, as also did a substantial proportion of the 1959 publications. A particular Series of entries contains references published in the year of the Series number or any of the three preceding years (e.g. Entry No. 61- . . . could have been published in any year from 1958 to 1961 inclusive but not in 1957). References found late for earlier years are accumulated and entered in separately indexed annual supplements, with the series of the year of publication of the most recent of those references. Thus, references to 1957 and 1958 publications received in 1962 would appear in 1963 in a supplement issued separately with a 58- . . . serial number; references to 1957, 1958, and 1959 publications received in 1963 would appear in 1964 in a supplement within the 59- . . . series."

3. REFERENCES

3.1 *Authors*

Names and Abbreviations of Organizations

Insert, in alphabetic order, the following:

FID	..	..	International Federation for Documentation
			Fédération Internationale de Documentation
NPFSC	..	..	North Pacific Fur Seal Commission

4. ANNOTATIONS AND TREATMENT OF SPECIAL CASES

4.1 *Treatment of publications not seen by compilers*

Code for Abstracting Journals

Insert, in alphabetic order, the following:

Boletín del Centro de Documentación Científica y Técnica, México	..	..	..	BCDM
Crescent Oceanographic Bulletin	..	..	..	COB
Instrument Abstracts	..	..	..	IA
Meteorological Abstracts and Bibliography	..	..	..	MA

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—ERRATA

61-014er to 61-023er

Delete the following entries:

		61-014er
(59-5486)	(59-8583)	(59-8799)
(59-9832)	(60-3258)	(60-5166)
(60-5228)	(61-00205)	(61-00698)
(61-00816)		

St. John's Station, typescript, 22 p., *should read*
Transl. Ser. Fish. Res. Bd. Can., (238) : 15 p.

61-015er
(60-7312)

(1958) *should read*
(1959)

61-016er
(60-7312)

(1960) *should read*
(1959)

61-017er
(60-6299 to 60-6338)

(1960) *should read*
(1961)

61-018er
(60-3836 to 60-3850)

475 p. *should read*
681 p.

61-019er
(60-3836)

480 p. *should read*
536 p.

61-020er
(60-6299)

Title: On the predatory relationships among bluefin tuna and coastal fishes in the southern waters of Japan *should read*
(On the predatory relationships among bluefin tuna and coastal fishes in the southern waters of Japan). *Ni*

61-021er
(60-8369)

Title: Die Salmoniden des Radika-Flusses *should read*
Pastrike reke Radike

61-022er
(59-5033)

Author: Georgiev, M. *should read*
Georgievski, M.

61-023er
(59-6587)

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—ADDENDA

61-068ad to 61-103ad

Annotation: A comprehensive monograph with main chapters: Geographical position; Physiography; Life conditions; Communities; Biogeography; Fishery; Hydrobiological station in Ohrid; Bibliography. Indexes of authors, organisms, subjects. Appendix reports J. G. J. Kuiper's observations on the lamellibranchs. 61-068ad (60-5293)

Title: Kolebaniia teplovogo balansa Atlanticheskogo okeana (Fluctuations of the heat balance in the Atlantic Ocean) 61-069ad (59-6916)

Reference: : 309-23 61-070ad
Title: O reaktsiiakh ryb v elektricheskikh poliiakh peremennogo toka (On the reactions of fishes in electrical fields of alternating currents) (60-2226)

Title: Sgonno-nagonnaia tsirkuliatsiia i ee rol' v gidrologicheskom rezhime Chernogo moria (Rise and flow circulation and its role in the hydrological regimen of the Black Sea) 61-071ad (60-4819)

Annotation: Orig. issued as: *Tellus*, 12 (3) : 274-81. The physical and chemical processes responsible for exchange of carbon dioxide between the atmosphere and the sea are analyzed. 61-072ad (60-8937)

Annotation: Review of the oceanographic programme of IGY with description of the Italian programme in the Tyrrhenian Sea. 61-073ad (60-6019)

Ref.: 12 : 127-45 61-074ad
Title: Materialy k uzucheniiu raspredeleniia belukhi v severnykh moriakh SSSR (Material to the study of distribution of belukha in the northern seas of the USSR). (60-8435)

Ref.: 12 : 146-53 61-075ad
Title: Kharakteristika podkhoda belukhi k beregam (Study of approaches of belukha to the shores) (60-8436)

Ref.: 12 : 154-7 61-076ad
Title: Zimne-vesennnee raspredelenie belukhi v Belom more (Winter-spring distribution of belukha in the White Sea) (60-8437)

Ref.: 12 : 158-64 61-077ad
Title: Opyt ispol'zovaniia samoleta dlia razved kibelukhi (Experimental air-scouting for belukha) (60-8438)

Ref.: . . . ryb. Khoz., 12 : 165-73 61-078ad
Title: Materialy po biologii razmnzheniia belukhi severnykh morei SSSR (Material on the reproductive biology of belukha of the northern seas of the USSR) (60-8439)

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- Annotation:* Issued also as: *Publ. Fish. Developm. Un. Sierra Leone*, (3). 61-079ad
(571756)
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- Author:* (1960) 61-087ad
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- Annotation:* Orig. issued as: *Publ. int. Ass. sci. Hydrol.*, (51) : 420-5. 61-088ad
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- Annotation:* Orig. issued as: *Publ. int. Ass. sci. Hydrol.*, (51) : 392. 61-090ad
(60-9043)
- Annotation:* Orig. issued as *Publ. int. Ass. sci. Hydrol.*, (51) : 362-78. 61-091ad
(60-9166)
- Annotation:* Orig. issued as: *Publ. int. Ass. sci. Hydrol.*, (51) : 379-86. 61-092ad
(60-9041)
- Annotation:* Deals with the stock of the haddock of the Grand Bank of Newfoundland in relation with those of Europe and North America. Curves for theoretical and actual growth in the different sub-areas (3 O, 3 P and 3 N), length frequencies; number of sclerithes; vertebral counting; sexuality and maturity; feeding habits; correlation between the otolith length and weight with the age, are considered. 61-093ad
(61-01135)
- Ref.:* News Service Ltd. 61-094ad
(60-9969)
- Annotation:* Outlines methods for constructing and managing small farm fish ponds. 61-095ad
(59-8504)

ADDENDA

Title: Sammenliknende undersøkelser vintersild-sesongen 1959 over fangstresultatene ved bruk av snurpenøter av kunstfibre (nylon/terylene) kontra snurpenøter av bomull 61-096ad (60-8017)

Annotation: Uses albacore catch data reported by longline boats. 61-097ad (60-3443)

Title: Nekotorye dannye o vliianii khishchinkov na razmernyi sostav populiatsii ryb (Some data on the effect of predatory fishes on the size of fish stocks) 61-098ad (59-3049)

Annotation: Reviews the problem of interrelations with special reference to investigations carried out in the Caspian Sea and the Volga Delta.

Annotation: Critical study of genus in America and Eurasia with distribution maps and line-drawings. 61-099ad (59-5944)

Annotation: Note on reproduction of this alga, member of Codiaceae, from Florida. 61-100ad (59-2572)

Ref.: 2 (2) : 56 p. 61-101ad
Annotation: Physical and chemical characteristics of bay were ascertained for comparison with major basins of Great Lakes. (59-2581)
 Circulation, temperature, transparency, silica, magnesium. Drift bottle studies are reported.

Annotation: Study of *Penaeus duorarum* and associated fish, *Lagodon rhomboides* (by product), as bait for angling. 61-102ad (571808)

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61-01178

[*Publ.*] *Mar. Lab. Univ. Miami*, (59-6): App. 1, 7 p.

A population study of the so-called Makajiki (striped marlin) of both northern and southern hemispheres of the Pacific—1. Comparison of external characters

En 61-01177.

Honma, M. & T. Kamimura (Beard, G. Y., Transl.) (1959)

M
61-01179

[*Publ.*] *Mar. Lab. Univ. Miami*, (59-6) : App. 2, 12 p.

A population study of the so-called Makajiki (striped marlin) of both northern and southern hemispheres of the Pacific—2. Fishing conditions in the southern hemisphere

En 585886.

De Buen, F. (1959)

M
61-01180

Rev. Biol. mar., *Valparaíso*, 9 (1-2-3) : 3-200

Lampreas, tiburones, rayas y peces en la estación de Biología Marina de Montemar, Chile (Lampreys, sharks, rays and bonny fishes in the Marine biological Station of Montemar, Chile)

Systematic list, descriptions, notes on distribution etc ; bibliography and index to localities and genera.

REFERENCES

- M
61-01181
- Fagetti Guaita, E.** (1959)
Rev. Biol. mar., Valparaíso, 9 (1-2-3) : 201-28
 Salpas colectadas frente a las costas central y norte de Chile (Salps collected off the middle and northern coasts of Chile). En

Lists, notes and ill., with bibliography.

- M
61-01182
- Fischer, W. K.**, (1959)
Rev. Biol. mar., Valparaíso, 9 (1-2-3) : 229-49
 Huevos, crías y prelarvas de la merluza (*Merluccius gayi*), Guichenot (Eggs, embryos and prelarvae of the hake, *Merluccius gayi*, Guichenot). En

1st stages of development described up to 8 mm standard length; based on living, as well as formalin fixed material obtained by artificial fertilization of eggs and rearing of the recently hatched vitelic larvae, and also from plankton hauls carried out between 2 and 8 miles off Valparaíso.

- M
61-01183
- Fagetti Guaita, E.** (1959)
Rev. Biol. mar., Valparaíso, 9 (1-2-3) : 251-5
 Quetognatos presentes en muestras antárticas y subantárticas (Chaetognaths in antarctic and subantarctic specimens)

Data for *Sagitta* and *Eukrohnia* spp.

- M
61-01184
- De Buen, F.** (1959)
Rev. Biol. mar., Valparaíso, 9 (1-2-3) : 257-70
 Notas sobre ictiología chilena, con descripción de dos especies nuevas (Notes on Chilean ichthyology, with description of two new species)

Describes and ill. *Torpedo tremens* and *Scomberesox stolatus* n. spp.; notes on *Parachaenichthys* and *Chelidonichthys* spp.

- M
61-01185
- Rodríguez, J. E. de Mesquita** (1958)
Bol. Soc. broteria., 32 : 91-4
 A new variety of *Gigartina teedii* (Roth) Lamouroux

- F
61-01186
- Mookerjee, S. & A. Sinha** (1959)
J. exp. Zool., 141 (2) : 379-89
 Regionality in the inductive power of *Hydra* tentacle

Reports experiments with *H. vulgaris* phase *orientalis* from ponds near Calcutta.

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- M
61-01187
- Ahlstrom, E. H. (1959)**
Fish. Bull., U.S., 60 (161) : 107-46
 Vertical distribution of pelagic fish eggs and larvae off California and Baja California

Gives information on vertical distribution of 46 spp. of fish larvae and 8 spp. of fish eggs, as determined from 22 series of hauls made at 15 stations.

- M
61-01188
- MacGregor, J. S. (1959)**
Fish. Bull., U.S., 60 (166) : 215-30
 Relation between fish condition and population size in the sardine (*Sardinops caerulea*)

Presents data for 15 fishing seasons, 1941 and 1959, showing year-to-year trends of mean condition factor and mean length of *Sardinops caerulea* at San Pedro.

- F
61-01189
- Huet, M. (1959)**
Trav. Sta. Rech. Groenendaal, (25D) : 40 p.
 Compte rendu de mission piscicole aux États-Unis et au Canada (Report on a fisheries mission to the United States and Canada)

A report on lectures delivered, institutions visited, types and methods of fishculture, and limnological features.

- M
61-01190
- Argentina. Secretaría de Marina. Servicio de Hidrografía Naval (1959)**
 Buenos Aires, 140 p.
 Química del agua de mar (Chemistry of sea water)

A text book.

- G
61-01191
- Pearce, S. C. (1960)**
Biometrics, 16 (1) : 1-6
 A method of studying manner of growth

The method described is applied to plants and consists essentially of plotting the standard deviations of log size at time t and of the increment of log size between times 0 and t against the mean fractional increment, taking into account the correlation between the initial size and the fractional increment.

- G
61-01192
- Andersen, F. S. (1960)**
Biometrics, 16 (1) : 19-27
 Competitions in population consisting of one age group

A general review, discussing differential mortality of two genotypes, larval cannibalism, fecundity, sex ratio density, dependent movements, beneficial effects of density. Few aquatic examples are cited.

REFERENCES

Blackith, R. E. (1960) G
61-01193
Biometrics, 16 (1) : 28-40

A synthesis of multivariate techniques to distinguish patterns of growth in grasshoppers

An account of the separation of sub-populations by an extension of the concept of discriminant functions to the problem of maximizing the dispersion of more than two groups of organisms over several dimensions of variation. Considers the deliberate selection of extreme individuals in choosing suitable dimensions of variation. Expanded version of a paper read to the 4th International Biometric Conference, Ottawa, Sept. 1958.

Darwin, J. H. (1960) G
61-01194
Biometrics, 16 (1) : 51-60

An ecological distribution akin to Fisher's logarithmic distribution

A model for frequency distribution of number of spp. in samples, is derived and applied to data for mosses and ciliates.

Linhart, H. (1960) G
61-01195
Biometrics, 16 (1) : 125

Tables for W. L. Stevens's "Asymptotic regression"

Ci 1951 W. L. Stevens. Notice of availability of tables for estimation of parameters in an exponential model by method of W. L. Stevens.

Riffenburgh, R. H. (1960) MF
61-01196
Biometrics, 16 (1) : 129

Parameter estimation for fish growth curves

Abstr. of paper presented at the meeting of the western North American region, S. Diego, June 15-16, 1959. Describes method for estimating parameters of Gompertz curve and others when sizes at successive times are known for individual animals or population groups.

Wiggins, A. D. (1960) MF
61-01197
Biometrics, 16 (1) : 132

A life testing problem arising from exposure to radioactive waste

Abstr. of paper presented to the meeting of the western North American region, S. Diego, June 15-16, 1959. A mathematical model of a censored life-testing experiment is constructed using the times of death as random variables. A failure rate which is a step function of time is assumed, with the result that the survival probability is a modified form of exponential law. An application to a population of fish exposed to radio-active effluents is considered.

M

FAO. Fisheries Division Biology Branch (1960)

61-01198

Synops. Fish. Biol. Br. F.A.O., (5)

Preparation of regional fisheries oceanographic synopses

Introduces the series of FAO Fisheries Biology Branch documents referred to as Oceanographic Synopses. Lists previous documents; proposes standard outline for a regional synopsis; summarizes report by I. Hela to FAO, December 1959, on subject of title.

M

Taarland, T. et al. (1958)

61-01199

Tidsskr. Hermetikind., (11) : 405-12

Naeringsverdi og vitaminer i norsk fisk og fiskevarer (Nutritional values and vitamins of Norwegian fish and fish products). En

NAR 30 (1) 176. Chemical composition, vitamin B₁, riboflavin, nicotinic acid, pantothenic acid and vitamin B₁₂ contents and the energy value of 72 Norwegian fishes and fish products and the vitamin A-D contents of cod roe and liver, herring, brisling and mackerel are presented in two tables.

MF

Duchâteau, G., M. Florkin & C. Jeuniaux (1959)

61-01200

Arch. int. Physiol., 67 : 489-500

Composante aminoacide des tissus chez les crustacés—1. Composante amino-acide des muscles de *Carcinus maenas* L. lors du passage de l'eau de mer à l'eau saumâtre et au cours de la mue (The amino acid component of tissues of crustaceans—1. The amino acid component of muscles of *Carcinus maenas* L., during passage from sea water to brackish water and during the moult)

NAR 30 (1) 180.

F

Kraiukhin, B. V. (1959)

61-01201

Zool. Zh., 38 : 1242-8

Vliianie odnoobraznogo korma na pishchevaritel'nuu sistemu i obmen u karpa (*Cyprinus carpio* L.) (Effect of monotonous food on the digestive system and metabolism in the Carp, *Cyprinus carpio* L.)

NAR 30 (1) 840. Two groups of young carp were fed for 20 months exclusively on rapeseed cake or on Tubifex. By the fifth month the fish fed on worms were twice as heavy as those fed on cake and the proportion thereafter was about the same. Despite their smaller size and weight fish fed on cake had intestines almost as long and as heavy as those of fish fed on worms and their gall-bladders were heavier. Oxygen consumption was measured monthly.

F

Stolk, A. (1959)

61-01202

Naturwissenschaften, 46 : 361-2

Effect of high-fat diet on mast cell count in mesenterium of some viviparous toothcarps

NAR 30 (1) 842. Young male and female guppies, *Lebistes reticulatus* Peters, swordtails, *Xiphophorus helleri* Heckel, and platyfishes, *X. maculatus* Günther, were kept in tanks with tap water and given no food or algae, or *Enchytraeus* or a low-fat diet, or a high-fat diet alone or with added cholesterol.

REFERENCES

- M
61-01203
- Newman, W. A. (1960)**
Veliger, 2 (4) : 89-94
 On the paucity of intertidal barnacles in the tropical western Pacific
- BA 35E (13) 33613. Suggests that predation accounts for their restricted intertidal distribution and low density along the shores of tropical oceanic islands. Predators appear to be certain reef-browsing fishes.
- F
61-01204
- Smith, D. L. (1960)**
Mosquito News, 20 (1) : 55-6
 The ability of the top minnow, *Gambusia affinis* (Baird and Girard), to reproduce and overwinter in an outdoor pond at Winnipeg, Manitoba, Canada
- BA 35E (13) 33615. Experiments have shown that the top minnow, *G. affinis*, is able to reproduce and overwinter out-doors.
- M
61-01205
- van Bruggen, A. C. (1958)**
Levende Nat., 61 (2) : 35-43
 Waarnemingen op de Atlantische Ocean (Observations on the Atlantic Ocean)
- BA 35E (13) 33617. Observations on birds, fishes and whales. Dolphins near Ascension were noted.
- MF
61-01206
- Zanandrea, G. S. J. (1959)**
Pubbl. Staz. zool. Napoli, 31 (1) : 15-24
 La lampreda della Campania (Lampreys from Campania)
- BA 35E (13) 33621. Describes distribution of *Lampetra planeri*, *L. fluviatilis* and *Petromyzon marinus* in the Campania region of Italy.
- F
61-01207
- Kokke, P. A. (1958)**
Levende Nat., 61 (12) : 278-84
 De diatomeeënflora van een wiel te Haalderen (The diatom flora of a riverside pool at Haalderen, Netherlands)
- BA 35E (13) 33675. *Asterionella formosa* predominates in February, with peridinium *Ceratium hirudinella* and *Synedra*'s coming on in March, May gives high figures for *Pandorina morum* and *Eudorina elegans*, nanoplankton extremely rich in small diatoms, highest figures were found in March, both for centric and for pennate diatoms. With tables and diagrams.
- MF
61-01208
- Leentvaar, P. (1958)**
Levende Nat., 61 (1) : 6-12
 Hydrobiologie en natuurbehoud (Hydrobiology and the conservation of nature)
- BA 35E (13) 33677. Gives an outline of State Institute for Investigations related to the Conservation of Nature. States that conservation of character, flora and fauna of a great variety of waters situated in various parts of the Netherlands will be attempted.

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- F
61-01209
- Leentvaar, P.** (1958)
Levende Nat., 61 (7) : 150-4
 Guanotrofie in het Naardermeer (Guano-trophy in the Lake of Naarden)

BA 35E (13) 33678. Reveals several sections with a rich plankton, consisting predominantly of small yellow-green flagellates and some accompanying other spp. of plankton organisms, which is tentatively ascribed to the presence of rookeries of cormorants and spoonbills, hence the term guano-trophic plankton.

- F
61-01210
- Bilii, M. D.** (1959)
Dopov. Akad. Nauk U.R.S.S., (8) : 912-6
 (Development of Zander eggs in a humid atmosphere). *Ru*

BA 35E (13) 33683. Covers results obtained during observations of *Lucioperca sandra* which developed in a humid atmosphere instead of in water. Development in moist air occurs exactly as in water, right up to hatching.

- F
61-01211
- Hoffman, C. H.** (1959)
Agric. Chemic., 14 (7) : 41-3, 89
 Are the insecticides required for pest control hazardous to aquatic life? 2.

BA 35E (13) 33688. Reviews field tests made from 1955-1957 with different insecticides.

- M
61-01212
- Orcutt, H. G.** (1959)
Rep. Amer. malac. Un., 1959 : 35
 Oysters and oyster predators in California

BA 35E (13) 33690. Reviews procedure followed for oyster culture in California.

- F
61-01213
- Payne, R. B.** (1960)
Trans. Amer. micr. Soc., 79 (1) : 108
 Notes on the occurrence of *Craspedacusta* in two natural lakes in Michigan

BA 35E (13) 36373. Fresh-water jellyfish medusae have been observed each year 1947-1959 in Barron Lake, Cass County.

- F
61-01214
- Robinson, H.** (1960)
J. Tenn. Acad. Sci., 35 (1) : 9-17
 The genus *Gerardia* in Tennessee

BA 35E (13) 36374. Reports 8 spp. of *Gerardia*, with a total of 11 varieties, with a key and descriptions.

REFERENCES

M

61-01215

Squires, D. F. (1960)

N.Z. J. Geol. Geophys., 3 (1)

Additional rhinangiid corals from the Wanganui series

BA 35E (13) 36375. Records two additional spp.; *Culicia rubeola* (Quoy & Gaimard) is also represented in the modern fauna and is discussed in relation to depth distribution of the Wanganui faunas and possible occurrence of derived coral specimens in the Cook Strait area. *Oulangia radames* n. sp. is reported for the first time from New Zealand.

MF

61-01216

De Ridder, M. (1959)

Natuurwet. Tijdschr., 41 (4) : 105-16

Onderzoekingen over brakwaterrotatorien. 7. De "Grote Geule" te Kieldrecht (Investigations of brackish water rotifers—7. The "Grote Geule" at Kieldrecht)

BA 35E (13) 36377. Presents salt tolerances and data on presence of eggs. Concludes that most so-called fresh water spp. can live in brackish and even salt water.

M

61-01217

Higgins, R. P. (1960)

Trans. Amer. micr. Soc., 79 (1) : 85-91

A new species of *Echinoderes* (Kinorhyncha) from Puget Sound

BA 35E (13) 36378. Describes *E. pennaki*. Incl. a key to the genus.

M

61-01218

Dew, B. (1959)

Rec. Aust. Mus., 25 (2) : 19-56

Serpulidae (Polychaeta) from Australia

BA 35E (13) 36380. Reviews most of the known Australian spp., except the Spirobridae, incl. a key to the genera, gives full descriptions of the spp., and adds to the knowledge of serpulid distribution.

F

61-01219

Walton, M. & H. H. Hobbs, Jr. (1959)

Quart. J. Fla Acad. Sci., 22 (2) : 114-20

Two new eyeless ostracods of the genus *Entocythere* from Florida

BA 35E (13) 36387. Describes *E. ambophora*, commensal on the albinistic crayfish, *Procambarus acherontis* and *E. lucifuga* on *P. lucifugus alachua* and *P. pallidus*.

F

61-01220

Cook, D. R. (1960)

Ann. ent. Soc. Amer., 53 (1) : 35-60

Water mites of the genus *Piona* in the United States (Acarina: Pionidae)

BA 35E (13) 36468. Gives detailed descriptions, with figures, for 30 spp., incl. 11 that are new.

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Vandeplas, A., W. Schraitle & C. E. P. Brooks (Comp.) MF
Washington, D.C. 230 p. 61-01221

Alphabetical list of subject headings with corresponding universal decimal classification numbers for meteorology (551.5) and related subjects (A through L)

NE 1955 Vandeplas, A., W. Schraitle & C. E. P. Brooks. 2nd enlarged edition based on volumes 1-10 of Meteorological Abstr. & Bibliography, Jan. 1960-Dec. 1959.

Barnawell, E. B. (1960) M
Veliger, 2 (4) : 85-8 61-01222
The carnivorous habit among the Polyplacophora

BA 35E (13) 36480. Studies gut contents of 4 spp. of the genus *Mopalia* living in San Francisco Bay. Discusses some speculations as to the possibility of an entirely carnivorous chiton.

Basch, P. F. (1959) F
Rep. Amer. malac. Un., 1959 : 17 61-01223
The Coosa revisited

BA 35E (13) 36481. Describes *Rhodacmea cahawbensis* Walker 1917.

Berry, S. S. (1959) M
Rep. Amer. malac. Un., 1959 : 33 61-01224
Some recent finds of interest in west Mexico Mollusca

BA 35E (13) 36482. Reports important additions to the Panamic fauna and other significant discoveries in Mexican waters.

Bousfield, E. L. (1959) MF
Rep. Amer. malac. Un., 1959 : 33 61-01225
Malacology in the National Museum of Canada

BA 35E (13) 36483. The current status of malacology in the National Museum of Canada is discussed, with particular reference to Canadian Pacific marines.

Burch, J. Q. (1959) F
Rep. Amer. malac. Un., 1959 : 5-6 61-01226
Classification in the Olividae

BA 35E (13) 36484. Genetic organization permits great variation in color, and to some extent in form as well. Result being creation of very large synonymy for many spp. Discusses problems involved.

REFERENCES

- M
61-01227
- Clarke, A. H., Jr.** (1959)
Rep. Amer. malac. Un., 1959 : 3-4
 In search of *Neopilina*
- BA 35E (13) 36486. Reports finding of new subgenus and sp. of *Neopilina* in Milne-Edwards trench off northern and central Peru. Incl. notes on ecology, feeding and locomotion of the sp.
- M
61-01228
- Cox, K. W.** (1959)
Rep. Amer. malac. Un., 1959 : 34
 The abalones of California
- BA 35E (13) 36487. Spp. of abalone found in California are: *Haliotis rufescens*, *H. corrugata*, *H. fulgens*, *H. walallensis*, *H. cracherodii*, and *H. sorenseni*. Discusses variations in shell forms and other distinguishing characters.
- M
61-01229
- Hertlein, L. G. & E. C. Allison** (1960)
Veliger, 2 (4) : 94-5
 Species of the genus *Cypraea* from Clipperton Island
- BA 35E (13) 36492.
- M
61-01230
- Hill, H. R.** (1959)
Rep. Amer. malac. Un., 1959 : 34
 Some observations on tropical West American cones
- BA 35E (13) 36493. Occurrence of *Conus* along the coast of tropical W. America. Comments are made relative to the validity of spp. and other pertinent considerations of the group.
- M
61-01231
- McInnes, D. E.** (1959)
Vict. Nat., Melb., 76 (6) : 150-2
 Observations on the paper nautilus
- BA 35E (13) 36497. Observations on two captured specimens of *Argonauta nodosa* and several newly hatched young, incl. microscopical observations on the action of the color cells of the young.
- MF
61-01232
- Milburn, W. P.** (1959)
Rep. Amer. malac. Un., 1959 : 36
 The interpretation of *Neopilina*
- BA 35E (13) 36498. Discusses relationship of molluscs to other invertebrates such as arthropods, annelids, bryozoans, and branchiopods. Discovery of *Neopilina* has partially clarified relationship within Mollusca. Gives morphological characters for each group.

- M
61-01233
- Orr, V. (1959)**
Rep. Amer. malac. Un., 1959 : 13-4
 Observations of *Murex stainforthi* and *M. monodon*

BA 35E (13) 36499. Describes shell forms and other distinguishing characters of spp. collected from Broome, Western Australia.

- M
61-01234
- Orr, V. (1959)**
Rep. Amer. malac. Un., 1959 : 23-4
 Collecting at Broome, Western Australia

BA 35E (13) 36500. Collecting expedition shows that molluscan fauna is a mixture of widespread Indo-Pacific spp., such as *Cypraea caput-serpentis*, *Fragum unedo*, *Amoria volutes* and *Sunemeroc perexcavata*. *Tectus caeruleus* resemble their Indo-Pacific counterparts, *T. pyramis*. Records other observations.

- F
61-01235
- Robertson, R. (1959)**
Rep. Amer. malac. Un., 1959 : 22-3
 The mollusc fauna of Bahamian mangroves

BA 35E (13) 36501. Presents taxonomic composition of molluscan fauna with comments on occurrence and distribution of forms, and their habits, incl. remarks on life histories and descriptions of their appearance. Discusses the influence of the algal flora with comments on specific algae.

- F
61-01236
- Rosewater, J. (1959)**
Rep. Amer. malac. Un., 1959 : 10-3
 Egg mass and gross embryology of *Pleurocera canaliculatum* (Say, 1811)

BA 35E (13) 36502. Describes eggs and gives a "time table" that indicates the outstanding events during the development. Compares data with information available on other members of the family.

- M
61-01237
- Saunders, P. R. (1959)**
Rep. Amer. malac. Un., 1959 : 36
 Studies on the feeding habits and venom of several species of *Conus*

BA 35E (13) 36503. Reports observations on the feeding behaviour of two dangerously venomous cone snails, *Conus striatus* and *C. textile*.

- F
61-01238
- Smith, A. G. (1959)**
Rep. Amer. malac. Un., 1959 : 37
 Collecting land snails in the Cape San Lucas region

BA 35E (13) 36504. Reports that *Bulimulus artemisia* was taken alive for the first time.

REFERENCES

- Smith, A. G.** (1960) F
61-01239
Veliger, 2 (4) : 75-7
 The type species of *Lepidopleurus* Leach in Risso, 1826
 BA 35E (13) 36505. Reviews taxonomy of the polyplacophoran genus *Lepidopleurus* Leach in Risso, 1826.
- Steinberg, J. E. & M. L. Jones** (1960) M
61-01240
Veliger, 2 (4) : 73-5
 A new opisthobranch of the genus *Aglaja* in San Francisco Bay
 BA 35E (13) 36508.
- Talmadge, R. R.** (1960) F
61-01241
Veliger, 2 (4) : 83-5
 Color phases in *Monadenia fidelis* (Gray)
 BA 35E (13) 36510. Reports that color phases, referable to the same geographical race were found to occupy specific and separate ranges along the Trinity River in northern California.
- Vagvolgyi, J.** (1959) F
61-01242
Rep. Amer. malac. Un., 1959 : 18-9
 Subspeciation in *Triodopsis*
 BA 35E (13) 36511. Gives morphological study of *Triodopsis*. Studies anatomy of the genitalia and considers their geographic distribution. Makes suggestions to change the present classification.
- Briggs, J. C. & R. R. Miller** (1960) MF
61-01243
Occ. Pap. Mus. Zool. Univ. Mich., 616 : 1-5
 Two fresh water clingfishes of the genus *Gobiesox* from southern Mexico
 BA 35E (13) 36514. *G. fluviatilis*, from tributaries of the Rio Grande de Santiago and *G. mexicanus*, from various places near the southwestern coast.
- Blaak, H.** (1958) MF
61-01244
Levende Nat., 61 (6) : 131-3
 Over het broeden van de scholekster in Nederland (On the nesting of the oyster catcher in the Netherlands)
 BA 35E (13) 36520. Gives an overall picture of areas where *Haematopus ostralegus* nests.
- Hall, K. R. L.** (1959) MF
61-01245
Ostrich, 30 (4) : 143-54
 Observations on the nest-sites and nesting behaviour of the black oyster-catcher *Haematopus moquini* in the Cape peninsula
 BA 35E (13) 36525.

- M
61-01246
- Davies, J. L. (1960)**
J. Mammal., 41 (1) : 29-34
 The southern form of the pilot whale
- BA 35E (13) 36543. *Globicephala malaena* Traill and *G. leucosagmaphora* Rayner represent one polymorphic sp. of disjunct distribution, within which the proportion of different color varieties differs markedly.
- M
61-01247
- Barnard, J. L. (1960)**
Pacif. Nat., 1 (16) : 36 p.
 New bathyal and sublittoral ampeliscid amphipods from California, with an illustrated key to *Ampelisca*
- Ill. descriptions of *Ampelisca*, *Byblis* and *Haploops* spp.
- M
61-01248
- Barnard, J. L. & R. R. Given (1960)**
Pacif. Nat., 1 (17) : 37-48
 Common pleustid amphipods of southern California with a projected revision of the family
- Review of Pleustidae, with keys to n. hemisphere genera, and to S. California spp.
- M
61-01249
- Menzies, R. J. & M. Tinker (1960)**
Pacif. Nat., 1 (18) : 4 p.
Haploniscus robinsoni, a new species of asellote deep sea isopod from the eastern tropical Pacific Ocean
- Diagnosis, ill, description, affinities.
- M
61-01250
- Angelescu, V. & E. E. Boschi (1959)**
 Buenos Aires, 135 p.
 Estudio biologico pesquero del langostino de Mar del Plata en conexi3n con la operaci3n Nivel Medio (Biological study of the shrimp of Mar del Plata in connexion with the Mid Level operation)
- Hydrological conditions of the fishing area, size classes and distribution of *Hymenopenaeus m3lleri*.
- MF
61-01251
- Kramp, P. L. (1960)**
Rec. Indian Mus., 53 (3-4) : 339-76
 Hydromedusae in the Indian Museum
- BA 35E (16) 46055. Collection of 37 spp., comprising 5 Anthomedusae, 19 Leptomedusae, incl. *Octophialucium indicum* and *Eutima hartlaubi*; 5 Limnomedusae; 5 Trachymedusae, and 3 Narcomedusae. The most important references are given, previous records from Indian waters, localities where taken, morphological and systematics.

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- MF
61-01252
- Barnard, J. L.** (1959)
Bull. S. Calif. Acad. Sci., 58 (1) : 16
 The number of species of gammaridean Amphipoda (Crustacea)
- BA 35E (16) 46060. 3146 spp. known at end of 1956, compared with the 1242 spp. listed in Stebbings 1906 revision.
- M
61-01253
- Colman, P.** (1959)
Proc. R. zool. Soc. N.S.W., 1957-58 : 56-7
 A new haliotid for New South Wales
- BA 35E (16) 46157. *Sanhaliotis whiteshousei*, varies from the original sp. described in 1826 as *Haliotis squamosa*.
- M
61-01254
- Colman, P.** (1959)
Proc. R. zool. Soc. N.S.W., 1957-58 : 59
 An albino cowry, *Erosaria erosa*, from Long Reef, N.S.W.
- BA 35E (16) 46158.
- M
90-01255
- Edmondson, C. H.** (1959)
Occ. Pap. Bishop Mus., 22 (11) : 203-6
 Two new species of *Teredo*, subgenus *Teredothyra*, from the western Pacific
- BA 35E (16) 46160.
- M
61-01256
- Klappenbach, M. A.** (1958)
Comun. zool. Mus. Montevideo, 81 : 1-4
 Una nueva especie de *Cyclodontina* del Uruguay (Gastr. Pulm.) (A new species of *Cyclodontina* from Uruguay, Gastr. Pulm.)
- BA 35E (16) 46163.
- MF
61-01257
- Macan, T. T.** (1960)
Sci. Publ. Freshwat. biol. Ass. Brit. Emp., 13
 A key to the British fresh- and brackish-water gastropods, with notes on their ecology
- BA 35E (16) 46164.
- M
61-01258
- Martel Sangil, M.** (1959)
Cons. Sup. Invest. cient. Estud. Geol., 15 (41-44) : 421-5
 Sobre un notable caso de convergencia en un gasterópodo recifal (On a notable case of convergence in a gastropod from Recife)
- BA 35E (16) 46165. *Rothpletzia rudista* from Canary Islands redescribed. Gastropods of the family Hyponoycidae, but showing curious convergencies with organisms which live in a coral-reef biotope.

- M
61-01259
- McMichael, D.** (1959)
Proc. R. zool. Soc. N.S.W., 1957-58 : 60-2
 The rediscovery of *Ternivoluta studeri* Martens (Mollusca: Volutidae)

BA 35E (16) 46166. First collected by German vessel 'Gazelle' in 1875, probably just outside Moreton Bay, apparently was not encountered again until recently in Tin Can Bay, south of Fraser Island, Queensland. Placed in subfamily Athletinae which contains a number of fossil genera, and appears to be nearly extinct.

- M
61-01260
- Nagabushanam, R.** (1960)
Rec. Indian Mus., 53 (1-2) : 1-11
 A systematic account of the molluscan wood borers of Visakhapatnum Harbour

BA 35E (16) 46168. An artificial land-locked harbour, approached by dredged channel, located midway between Madras and Calcutta. Organisms collected at low tide, weekly, throughout one year. 10 spp. of *Teredo*, 1 of *Bactronophorus*, 2 of *Banksia* and 2 of *Martesia* are recorded.

- M
61-01261
- Nair, N. Balakrishnan** (1960)
Rec. Indian Mus., 53 (1-2) : 261-78
 Shipworms of India—2. Seven more shipworms from South India

BA 35E (16) 46169. *Bankia* and *Teredo*.

- MF
61-01262
- Van Eeden, J. A.** (1960)
Ann. Transv. Mus., 24 (1) : 1-17
 Key to the genera of South African freshwater and estuarine gastropods (Mollusca)

BA 35E (16) 46176. Covers 14 genera in 9 families of Prosobranchia, and 18 genera in 5 families of Pulmonata, and incl. subgenera. Notes on a collecting technique, with ill. of useful wire-gauze scoop.

- M
61-01263
- Wagner, A.** (1960)
J. Parasitol., 46 (2) : 186
 Maintenance of a marine snail in the laboratory

Batillaria minima maintained for a year. Individuals infected with *Ornithobilharzia canaliculata*, an avian schistosome, continued to shed Cercariae at the end period.

BA 35E (16) 46177.

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- M
61-01264
- Winkler, L. R.** (1959)
Bull. S. Calif. Acad. Sci., 58 (1) : 8-10
 A new species of sea hare from California waters
- BA 35E (16) 46179. *Aplysia* (*Neaplysia*) *nettiae*.
- M
61-01265
- Moore, A. R.** (1959)
Biol. Bull., Woods Hole, 117 (3) : 492-6
 On the embryonic development of the sea urchin *Allocentrotus fragilis*
- BA 35E (16) 46181. Eggs of deep sea sp. taken in February and March develop normally at temperatures of 15°C or lower. Crosses with two common shore forms obtained. Spawning occurs toward the end of March.
- F
61-01266
- Alvarez, J.** (1959)
Ciencia, Méx., 19 (4-5) : 69-73
 Nuevas especies de *Xiphophorus* e *Hyporhamphus* (sic) procedentes del Rio Coatzacoalcos (Pisc., Poeciliidae X Hemiramphidae) (New species of fishes from the Coatzacoalcos River, Mexico)
- BA 35E (16) 46184. *Xiphophorus* and *Hyporhamphus*.
- MF
61-01267
- D'Ancona, U.** (1959)
Arch. Anat. micr. Morph. exp., 48 bis : 61-71
 Distribution of the sexes and environmental influence in the European eel
- BA 35E (16) 46186.
- M
61-01268
- Winn, H. E. & J. E. Bardach** (1960)
Zoologica, N.Y., 45 (1) : 29-34
 Some aspects of the comparative biology of parrot fishes at Bermuda
- BA 35E (16) 46191. Differences in egg shape, chromatophores and social organization are given as generic characters of *Sparisoma* and *Scarus*. Various spp. discussed in relation to sexual dichromatism. Information given on breeding seasons, and all common spp. of parrot fish in Bermuda breed during the summer. Reproductive habits.
- M
61-01269
- Hale, H. M.** (1959)
Rec. S. Aust. Mus., 13 (3) : 333-8
 The pigmy sperm whale off southern Australian coasts
- BA 35E (16) 46245. Data concerning two young *Kogia breviceps* (Blainville) stranded on the shore of St. Vincent Gulf.

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de Fonseka, D. T. E. A. (1960)
Ceylon, Govt. Press, 82 p.

MF
61-01270

Administration report of the Director of Fisheries for 1958. *En Tam Sin*

Riedl, R. et al. (1959)
Pubbl. Staz. zool. Napoli, 30 Suppl.: 1-787

M
61-01271

Results of the Austrian Tyrrhenian expedition 1952

BA 35A (5) 12000. Deals with Anthozoa, describing 13 spp. of which one, *Cladocera cespitosa* is new. Surveys the fish fauna and indicates their spread between the free littoral zones and the caves of the Tyrrhenian shore. Names spp. of harpacticoid copepods from the sea floor, a new sp. being named *Tergastes riedli*. The female of *Paramesochra coelobs* and the male of *Esola rosei* are described for the first time. Details 82 spp. of polychaetes obtained from the littoral zone, 2 new and 3 others found for the first time in the Mediterranean. Finds that plant representatives of region can be grouped into 8 communities dominated by one of the following, *Peyssonelia squamaria*, *Halimeda tuna*, *Corallina mediterranea*, *Pterocladia pinnata*, *Halopithys incurvus*, *Digenea simplex*, *Cystoseira discora* and *Cladophora prolifera*. Finds 34 types of Porifera and shows that these account for a considerable proportion of the animal life of the grottos and caves. Notes on Turbellaria *Arcoophora*, *Prolecithophora*, and *Seriata* and *Neohabdocoela*.

Swarup, H. (1957)
J. Univ. Saugar, 6 : 99-100

MF
61-01272

Apparatus for rearing early stages of fish

BA 35A (5) 12060. Describes apparatus which consists of 24 egg containers, a deep tray and a system of jets which forms continuous current of water over the eggs.

Wagner, E. D. & L. W. Chi (1959)
Trans. Amer. micr. Soc., 78 (4) : 421-8

F
61-01273

Methods on the rearing of the snail *Oncomelania* spp.

BA 35A (5) 12061.

Withrow, R. B. & C. C. Moh (1958)
Proc. int. Conf. peacef. Uses atom. Energ., 22 (2) : 400-3

MF
61-01274

Nonionizing radiant energy as a mediating factor controlling radiation damage in plants and animals

BA 35A (5) 12310. Account of observations on the nullifying or reversing effect of red energy. Incl. observations on *Lebistes* sp.

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61-01275
- Schöne, H.** (1957)
Z. vergl. Physiol., 39 (3) : 235-40
 Kurssteuerung mittels der Statocysten (Messungen an Krebsen) (Control of course with statocysts—Measurements on Crustacea)
- BA 35A (5) 12319. Account of quantitative investigation of the connection between statocyst function and control of swimming path in the shrimp *Crangon vulgaris* and *Paleomonetes varians*.
- MF
61-01276
- Bird, C. D.** (1959)
Proc. Okla. Acad. Sci., 39 : 5
 A technique for determining relative abundance and distribution of aquatic plants
- BA 35A (5) 12376. A means of measuring aquatic vegetation by pacing shoreline and, at specific intervals, stopping and recording all vascular plants visible in water at right angles to shore. Compares system and discusses advantages and drawbacks.
- MF
61-01277
- Chapman, V. J.** (1959)
Vegetatio, 8 (4) : 215-34
 Salt marshes and ecological terminology
- BA 35A (5) 12382. Seven major geographic seres are: Arctic, North European, Mediterranean, Western Atlantic, Pacific American, Sino-Japanese and Australasian. Associes are briefly described and named by their dominants. Nine orders are described with their alliances and associations.
- M
61-01278
- Anon.** (1961)
Chem. Engng, 68 (2) : 86, 88
 Add three to saline water technology
- WPA 34 (7) 1169. Three new methods for the demineralization of sea water are described.
- M
61-01279
- Brown, A. D.** (1960)
J. gen. Microbiol., 23 : 471-85
 Some properties of a gram-negative heterotrophic marine bacterium
- WPA 34 (7) 1197.
- F
61-01280
- Sládečková, A.** (1958)
Sci. Pap. Inst. chem. Tech., Prague, Fac. Tech. Fuel Wat., 2 (2) : 121-50
 The hydrobiology of the Hirschberg Lake
- WPA 34 (7) 1216. Describes hydrobiological investigations with special reference to variations in the algal groups over a period of 16 months.

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61-01281
- Protasov, V. R. & Iu. A. Mitrokhin** (1960)
Izv. Akad. Nauk S.S.S.R. (Biol.), (4) : 607-9
 O metode avtomaticheskogo ucheta migriruiushchei ryby po razmernym gruppam (Automatic estimation of fish migration according to size groups).
 En
- Description of a non-contact automatic electrone device for estimating size groups of fishes migrating through fish-passing constructions.
- M
61-01282
- Angelescu, V.** (1960)
 Buenos Aires, 71 p.
 Operación Centolla en el Atlantic Sur (Operation Centolla in the South Atlantic)
- Hydrological and meteorological characteristics of the zones of experimental fishing, results of catches of the crab, *Paralomis verrucosus*, hake and other spp. of fish, surface and bathymetric distribution of spp. of economic value.
- F
61-01283
- Kirk, R. et al.** (1959)
Ann. trop. Med. Parasit., 53 (1) : 97-102
 Onchocerciasis in the Sudan Republic
- BA 35E (4) 11774. Summarizes present knowledge and distribution which coincides with the distribution of *Simulium damnosum*.
- F
61-01284
- Christen, H. R.** (1959)
J. Protozool., 6 (4) : 292-303
 New colorless Eugleninae
- BA 35E (4) 11799. Describes *CALYCIMONAS physaloides* nov. gen. nov. sp., *Astasia acus*, a sp. related to green *Euglena acus*; *A. edax*; *Petalomonas striata*; *Hyalophacus caecus*.
- F
61-01285
- Downs, L. E.** (1959)
J. Protozool., 6 (4) : 285-92
 Mating types and their determination in *Stylonychia putrina*
- BA 35E (4) 11800.
- F
61-01286
- Rossmann, D. A.** (1959)
Quart. J. Fla. Acad. Sci., 22 (2) : 121-4
 Protozoan fauna of a limestone sinkhole in the north-central Florida
- BA 35E (4) 11804. Account of sampling of three different microhabitats, each containing distinctive protozoan fauna.

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61-01287
- Kinsel, G. V.** (1958)
Toronto, Fur Trade Journal of Canada, 231 p.
The theory and practice of nutria raising
- With respect to *Myocastor coypus*, covers the general biology, classification distribution, habits, anatomy etc.; fur; grading; genetics; farming; feeding; breeding; pelting; marketing; diseases; farm records.
- F
61-01288
- Kinsel, G. V.** (Lecomte, L. Transl.) (1961)
Paris, Ed. JEP, 520 p.
Théorie et pratique de l'élevage du *Myocastor-nutria-ragondin* (The theory and practice of nutria raising)
- Fr and NE 61-01287. Supplemented by a chapter on the *Myocastor* colony raising.
- F
61-01289
- Berry, S. S.** (1958)
Rep. Amer. malac. Un., 1858 : 36
Notes on the natural history of *Nomaeopelta*, a remarkable genus of limpets
- BA 35E (4) 11891. Genus is based on elaborate sensory equipment of mantle margin, with type genus being *Acmaea dalliana* Pilsbry, 1891.
- F
61-01290
- Berry, S. S.** (1958)
Rep. Amer. malac. Un., 1958 : 40
Tiphyocerma, a strange gastropod
- BA 35E (4) 11892. Calls attention to a new genus and sp. of snail, *Tiphyocerma preposterum*.
- M
61-01291
- Burch, J. Q.** (1958)
Rep. Amer. malac. Un., 1958 : 35
Taxonomic problems in the Conidae
- BA 35E (4) 11893. Discusses taxonomic confusion of conidae; points out that shell characters alone are not sufficient and that use of radular characters results in a different grouping of spp.
- M
61-01292
- Cate, C. N.** (1958)
Rep. Amer. malac. Un., 1958 : 36
Cypraea mus needs attention
- BA 35E (4) 11894. Reports that doubt has been removed concerning true habitat of *C. mus* and its range has been established in the coastal waters of Colombia and Venezuela.

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Chace, E. P. (1958)
Rep. Amer. malac. Un., 1958 : 37
 Some notes about *Modiolus*

M
 61-01293

BA 35E (4) 11895. Considers identification of spp. of *Modiolus* on west coast of North America.

Clarke, A. H., Jr. (1958)
Rep. Amer. malac. Un., 1958 : 3

M
 61-01294

Preliminary report on abyssal Atlantic molluscs from the 'Theta' and 'Vema' expeditions

BA 35E (4) 11896. Materials collected indicate that abyssal molluscs are small, pale and fragile; most bivalves are detritus feeders; gastropods are largely predators; and characteristic groups incl. the Trochidae (*Seguenzia*) Turridae, Malletiidae, Ledidae, Poromyidae, Cuspidaridae, Solenogastres, and scaphopods.

Vandeplas, A., W. Schraitle & C. E. P. Brooks (Comp.) (1960)
 Washington, D.C., 231-480

MF
 61-01295

Alphabetical list of subject headings with corresponding universal decimal classification numbers for meteorology (551.5) and related subjects (M through Z) Vol. 2

Co 61-01221.

Fitch, J. E. (1958)
Rep. Amer. malac. Un., 1958 : 35
 The bean clam, *Donax gouldii*

M
 61-01296

BA 35E (4) 11899. Discusses distribution and biology as it occurs on exposed sandy beaches from San Luis Obispo County, South California.

Gregg, W. O. (1958)
Rep. Amer. malac. Un., 1958 : 39

MF
 61-01297

A technique for preparing in tota (sic) mounts of molluscan anatomical dissections

BA 35E (4) 11900. Describes technique for preparing in toto mounts.

Herrington, H. B. (1958)
Rep. Amer. malac. Un., 1958 : 22
 Remarks on Sphaeriidae

F
 61-01298

BA 35E (4) 11901. Reviews taxonomy of the Sphaeriidae.

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61-01299
- Morrison, J. P. E. (1958)**
Rep. Amer. malac. Un., 1958 : 25-6
 The primitive history of some salt marsh snails
- BA 35E (4) 11908. Discusses features of life history of Melampidae incl. *Detracia floridana* Pfeiffer, *Melampus* (*Micromelampus*) *bidentatus* Say of the Atlantic coast of US, and *Melampus* (*Micromelampus*) *olivaceus* Carpenter from California.
- MF
61-01300
- Morrison, J. P. E. (1958)**
Rep. Amer. malac. Un., 1958 : 26
 Brackish water genera of Mactridae
- BA 35E (4) 11909. Gives taxonomic characters for the genera *Rangia*, *Rangianella* and *Mulinia*.
- F
61-01301
- Walter, H. J. (1958)**
Rep. Amer. malac. Un., 1958 : 16-7
 The morphology of *Lymnaea emarginata serrata* Haldeman with remarks on the systematics of lymnaeids
- BA 35E (4) 11916.
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61-01302
- Fields, H. M. (1959)**
Quart. J. Fla Acad. Sci., 22 (1) : 32-40
 A comparison of *Trachinotus cayennensis* with *T. carolinus* and *T. paitensis*
- BA 35E (4) 11922. Specimens taken off the coasts of Venezuela, British Guiana and Surinam.
- M
61-01303
- Gehringer, J. W. (1959)**
Quart. J. Fla Acad. Sci., 21 (3) : 235-40
Leptocephalus of the Atlantic tarpon, *Megalops atlanticus* Valenciennes, from offshore waters
- BA 35E (4) 11923. Stage of development for the tarpon is described, figured, and compared with the closely-related East-Indian tarpon, *M. cyprinoides* (Broussonnet); the bonefish, *Albula vulpes* (Linnaeus); and the ten-pounder, *Elops saurus* Linnaeus.
- MF
61-01304
- Strahan, R. (1959)**
J. roy. Soc. W. Aust., 42 (2) : 49-52
 The status of *Yarra singularis* and *Geotria australis* (Petromyzontidae)
- BA 35E (4) 11925. Reviews history of these names, with review of the characters ascribed to the spp. Concludes that "Yarra" is the "velasia" stage of *Geotria*, and that *G. australia* Gray = *Y. singularis* Castelnau.

- Pérès, J.-M. (1961)** M
61-01305
Paris, Presses Universitaires de France, 541 p.

Océanographie biologique et biologie marine—Tome 1. La vie benthique
(Biological oceanography and marine biology—Vol. 1. Benthic life)

Based on the lectures to the students of Oceanography of the Faculty of Marseille. Contains chapters on: general introduction to marine habitat and zonation, aphytic benthos, phytic benthos; biology of benthic animals; unities of population of the benthic division, tentative classification for the benthic communities of the phytic system.

- Popovskaia, G. I. (1960)** F
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Izv. sib. Otd. Akad. Nauk S.S.S.R., (3) : 71-80

O fitoplanktone del'tovykh protok r. Selenga (On the phytoplankton in the currents of the delta of the River Selenga)

- Komarenko, L. E. (1960)** MF
61-01307
Izv. sib. Otd. Akad. Nauk S.S.S.R., (3) : 81-96

Diatomovye vodorosli r. Kolyma (Diatoms from the River Kolyma)

- Titova, S. D. & E. G. Skripchenko (1960)** F
61-01308
Izv. sib. Otd. Akad. Nauk S.S.S.R., (3) : 97-107

Parazitofauna ryb verkhnei Obi v sviazi s gidrostroitel'stvom (The parasite fauna of fishes of the upper Ob in connection with the hydroconstructions)

- Anon. (1960)** MF
61-01309
New Scient., 8 (205) : 1042

Protests stop dumping of radioactive waste

Note on how protests by marine scientists caused French Atomic Energy Commission to reconsider proposal to sink barrels of radioactive waste in Mediterranean between French coast and Corsica; refers also to disposal in the Rhone and other French rivers.

- Anon. (1960)** M
61-01310
New Scient., 8 (205) : 1065

Dead white sea

Unusual whitening of the Dead Sea has suggested possibilities of controlling evaporation from large areas of water other than by covering surface with cetyl alcohol. A different approach might be based on infra-red absorption.

- Clegg, J. (1960)** F
61-01311
New Scient., 8 (205) : 1069-71

A plea for village ponds

They are ideal sites for zoological, botanical and ecological studies, and a movement for their conservation has begun in UK.

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Plant. Physiol., 34 : 380-9
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 IABS 18 (2) 4112.
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61-01313
- Chorney, W. et al.** (1960)
Biochem. biophys. Acta, 37 : 280-7
 Growth of algae in deuterium oxide
 IABS 18 (2) 4119. *Chlorella vulgaris*, *C. pyrenoidosa* and *Scenedesmus obliquus* can be grown in media made up with 99.6% D₂O.
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- Yaphe, W.** (1959)
Canad. J. Bot., 37 : 75-7
 Determination of K-carrageenin as a factor in the classification of the Rhodophyceae
 IABS 18 (2) 4177.
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61-01315
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Pubbl. Staz. zool. Napoli, 31 (1) : 1-14
 Structure of the fin and its regeneration in *Spadella cephaloptera*
 IABS 18 (2) 4210.
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Quart. J. micr. Sci., 101-25-36
 Ligament of Lucinacea (Eulamellibranchia)
 IABS 18 (2) 4222.
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- Hughes, G. M.** (1960)
J. exp. Biol., 37 : 11-27, 28-45
 The mechanism of gill ventilation in the dogfish and skate—2. A comparative study of gill ventilation in marine teleosts
 IABS 18 (2) 4229.
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61-01318
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J. exp. Biol., 37 : 83-99,
 Sodium regulation in the crayfish *Astacus fluviatilis*—1. The normal animal
 IABS 18 (2) 4231.

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J. exp. Biol., 37 : 100-12

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Sodium regulation in the crayfish, *Astacus fluviatilis*—2. Experiments with sodium-depleted animals

IABS 18 (2) 4231.

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Bryan, G. W. (1960)
J. exp. Biol., 37 : 113-28

61-01320

Sodium regulation in the crayfish, *Astacus fluviatilis*—3. Experiments with NaCl-loaded animals

IABS 18 (2) 4231.

F

Parsons, M. C. (1959)
J. Morph., 104 : 479-525

61-01321

The midgut of aquatic Hemiptera

IABS 18 (2) 4237. Low mitotic rate in MG I of *Pelacorix* and *Notonecta* discussed.

M

Chaung, S. H. (1960)
Quart. J. micr. Sci., 101 : 9-18

61-01322

Anatomical, histological and histochemical study of the gut of the brachio-pod, *Crania anomala*

IABS 18 (2) 4238.

F

Romaniuk, A. (1959)
Acta physiol. polon., 10 : 467-75

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Effect of hunger on alimentary instrumental conditioned reflexes in fishes

IABS 18 (2) 4239. Reflexes induced in six crucian carp using Prazdnikova's method.

M

Salanki, J. (1959)
Acta physiol. hung., 16 (Suppl.) : 113

61-01324

Role of efferent factors in regulation of slow rhythm of periodical activity of mussels (localisation of K-effect)

IABS 18 (2) 4255.

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Bainbridge, R. (1960)
J. exp. Biol., 37 : 129-53

61-01325

Speed and stamina in three fish

IABS 18 (2) 4256. Maximum speed sustained by dace, trout and goldfish of various lengths.

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 IABS 18 (2) 4263.
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J. Neurophysiol., 22 : 704-13
 Electrorétinogram of fresh-water turtle: selective adaptation to coloured light
 IABS 18 (2) 4266.
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- Kellog, W. N.** (1959)
J. comp. physiol. Psychol., 52 : 509-14
 Size discrimination (D) by reflected sound in a bottle-nose porpoise
 IABS 18 (2) 4268. *Tursiops truncatus* could discriminate between 2 spp. of fish differing in size both during the day in opaque or turbid water, and at night.
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61-01329
- Robertson, O. H. & B. C. Wexler** (1960)
Endocrinology, 66 : 222-39
 Histological changes in the organs and tissues of migrating and spawning Pacific salmon (genus *Oncorhynchus*)
 IABS 18 (2) 4274.
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61-01330
- Matty, A. J.** (1960)
J. Endocr., 19 : 353-8
 Thyroid protein-bound iodine (PBI) of a teleost fish (*Scarus guacamal*)
 IABS 18 (2) 4276.
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- Nandi, J. & H. A. Bern** (1960)
Endocrinology, 66 : 295-303
 Corticosteroid production by interrenal tissue of teleost fishes
 IABS 18 (2) 4277. *Anoplopoma timbria*, *Mugil cephalus*, *Tilapia mossambica*, and *Bodianus bilunulatus*.
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- Precht, H.** (1959)
Z. vergl. Physiol., 42 : 365-82
 Investigation into the adaptation of organ function of warm water fish to extreme temperatures
 IABS 18 (2) 4290. *Lebistes reticulatus* and *Xiphophorus hellerii* kept at different temperatures and opercular rhythm, respiration rate and heart beat frequency analysed. Effect of stimulating brain stem on muscular rhythmicity also studied.

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Acta parasit. polon., 7 : 527-33
 On the life-cycle of *Bothriocephalus claviceps* (Goeze, 1782) (Cest.)
- IABS 18 (2) 4313. *Macrocyclus albidus* L. is the first host. Attempt to infect Cyprinidae fry and *Carassius carassius* L. (Pisc.) with procercoids.
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- IABS 18 (2) 4325.
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- Verheijen, F. J. (1959)**
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 Absence of alarm substance in some clupeids
- IABS 18 (2) 4387. *Engraulis encrasicolus*, *Clupea pilchardus* and *C. harengus*.
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- Hardy, A. C. (1960)**
In 61-01336 : 27-30
 Tactics—Principal fishing boat types. Fr Es
- Chapters on: Grouping of boat types; Variety of boat types within countries; Change in appearance; Common types of boat.
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- Schmidt, P. G., Jr. (1960)**
In 61-01336 : 31-55
 Tactics—Fishing methods and deck arrangement—Purse seining: deck design and equipment. Fr Es
- Chapters on: Basic purse seining systems; Method of carrying fish; Size of boat; Requirement for an efficient purse seining system; Basic design considerations; Combination fishing; Equipment for purse seining; Analysis of vessel types and methods as applied to important purse seine fisheries; U.S. East and Gulf coasts; Norway; U.S. West Coast, Alaska and Canada; West Coast of South America; Iceland; South Africa and South West Africa; Portugal, France, Spain and North West Africa; Angola; Japan; Korea; and USSR.

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In 61-01336 : 56-63
 Tactics—Fishing methods and deck arrangement—Drift netting: deck design and equipment. Fr Es
- Chapters on: Fishing gear; Processing; Bow rudder; Hull form ; Propulsion machinery; Prospects.
- F
61-01340
- Colvin, T. E. (1960)**
In 61-01336 : 64-72
 Tactics—Fishing methods and deck arrangement—Gillnet fishing: deck design and equipment. Fr Es
- Chapters on: Fishing gear; Deck arrangement; Main specifications; Construction; Problems affecting the fishing industry; Future developments.
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61-01341
- Kanasashi, Y. (1960)**
In 61-01336 : 73-83
 Tactics—Fishing methods and deck arrangement—Longline fishing: deck design and equipment. Fr Es
- Chapters on: Fishing gear; General arrangements; Main specifications and construction; Machinery.
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61-01342
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In 61-01336 : 84-93
 Tactics—Fishing methods and deck arrangement—Pole and line fishing: deck design and equipment. Fr Es
- Chapters on: Skipjack; Mackerel; Squid. Fishing methods and general arrangements.
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61-01343
- Anon. (1960)**
In 61-01336 : 94-101
 Tactics—Fishing methods and deck arrangement—Non-trawling fishing method. Discussion
- Chapters on: Boat types; Non-trawling fishing; Drift net and gillnet fishing; Longlining; Pole and line fishing; Combination fishing.
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 Tactics—Fishing methods and deck arrangement—Trawling: deck design and equipment. Fr Es
- Chapters on: General description of fishing gear; Bottom trawl with one boat; Side trawler; Stern trawler without a ramp; Stern trawler with a ramp; Bottom trawl with two boats; Mid-water trawler; Future prospects. WFA 11 (5) : 11.

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 Tactics—Command of operations—Centralized control of trawlers. Fr Es
 Chapters on: Basic components; Typical layouts.
- M
61-01346
- Anon.** (1960)
In 61-01336 : 121-34
 Tactics—Design of trawlers—Discussion
 Review of related papers; chapters on: Stern handling versus side handling; Hauling speed and winch power; Smaller stern trawlers; Future developments; Command of operations.
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61-01347
- Hanson, H. C.** (1960)
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 Construction—Scantlings—Steel and wood scantling tables (West Coast of U.S.A.). Fr Es
 Chapters on: Wooden construction; Steel construction.
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61-01348
- Otsu, Y., N. Yokoyama & T. Kobayashi** (1960)
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 Construction—Scantlings—Structural testing of small craft. Fr Es
 Chapters on: General description; Structure test.
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In 61-01336 : 152-66
 Construction—Scantlings—Suggested standard scantlings. Fr Es
 Chapters on: Hull timbers; Determination of scantlings; Fastenings; Determination of fastenings.
- MF
61-01350
- Anon.** (1960)
In 61-01336 : 167-87
 Construction—Scantlings—Discussion. Scantlings
 Chapters on: Good boatbuilding practices; Comparison of wooden scantling regulations; Resistance of wooden keel, stem and stern post; Steel scantlings; Author's replies.
- MF
61-01351
- de Laszlo, P.** (1960)
In 61-01336 : 188-95
 Construction—New materials—Glass reinforced plastic hulls. Fr Es
 Chapters on: The raw materials of Polyester/Mat laminate; Moulds; Temperature control; Inspection; Strength; Rigidity; Hollow skegs; Weight; Tanks and engine foundation; Repair; Cost of hulls.

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Anon. (1960)
In 61-01336 : 196-9
 Construction—New materials—Plastic construction—Discussion

M
61-01353

Reay, G. A. & J. M. Shewan (1960)
In 61-01336 : 200-7
 Construction—Fish holds—The care of the catch. Fr Es

Chapters on: Why and how fish go bad; Temperature control; Care and cleanliness in handling.

M
61-01354

MacCallum, W. A. (1960)
In 61-01336 : 208-26
 Construction—Fish holds—The fish room: engineering and architecture.
 Fr Es

Chapters on: Large fishing boats: Insulation; Features conducive to efficient and safe working; Partitions, shelving, etc.; Coatings and linings; Materials for fish rooms; Small fishing craft: Longliners; Larger longliner, small trawlers and cutters.

M
61-01355

Slavin, J. W. (1960)
In 61-01336 : 227-33
 Construction—Fish holds—Icing versus freezing. Fr Es

Chapters on: The trawlers ' Delaware ' and ' Northern Wave ' ; Handling aboard the vessel; Storage on the vessel; Unloading and handling ashore; Quality aspects; Factors affecting costs; Overall evaluation.

M
61-01356

Doke, C. & S. Chigusa (1960)
In 61-01336 : 234-8
 Construction—Fish holds—Tuna freezing. Fr Es

Chapters on: Methods of preserving the catch; Refrigerating capacity and piping; Insulation.

M
61-01357

Anon. (1960)
In 61-01336 : 239-60
 Construction—Fish holds—Discussion

Chapters on: Icing and related problems; Design of fish holds; Comparison of freezing installations; Author's replies.

Stokke, I. (1960) MF
In 61-01336 : 261-73 61-01358

Construction—Installation of machinery—Propulsion engines for fishing boats. Fr Es

Chapters on: Comparison of two- and four-stroke diesels; Supercharging of diesels; Comparison of typical engines; Influence of r.p.m. on length; Semi-diesels; Operation of engines; Controllable-pitch propellers; Installation examples and trawl winch drive; Future development.

Hopwood, G. & H. W. N. Mewse (1960) M
In 61-01336 : 274-84 61-01359

Construction—Installation of machinery—Steam versus diesel. Fr Es

Chapters on: Comparison of UK West Coast steam and diesel trawlers; Example of machinery on a diesel trawler; Maintenance and operation of diesel main engine; Winch engine; Auxiliaries.

Süberkrüb, F. (1960) M
In 61-01336 : 285-8 61-01360

Construction—Installation of machinery—Propulsion systems for motor trawlers. Fr Es

Chapters on: Multiple-speed gear; Controllable-pitch propeller; Diesel-electric drive; Propeller nozzle.

Chardome, A. (1960) M
In 61-01336 : 289-94 61-01361

Construction—Installation of machinery—Recent trawlers fitted with multiple reduction gears. Fr Es

Chapters on: Auxiliary diesel for propulsion; Break-down of reduction gear; Latest development; Efficiencies; Multiple reduction gear versus controllable-pitch propeller.

Inamura, K. & N. Ninomiya (1960) MF
In 61-01336 : 295-7 61-01362

Construction—Installation of machinery—Device for raising and lowering propellers. Fr Es

Chapters on: Structure and materials; Installation; Problems to be solved.

Lackenby, H. (1960) M
In 61-01336 : 298-302 61-01363

Construction—Installation of machinery—Vibration in trawlers. Fr Es

Chapters on: The modes of vibration; The nature of excitation; Determination of vibration frequencies; Estimation of vibration frequencies.

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61-01364
- Anon. (1960)**
In 61-01336 : 303-19
 Construction—Installation of machinery—Discussion
- Chapters on: Engine design in general; Diesel-electric propulsion; Multiple-speed gear; Controllable-pitch propellers; Propeller shafts; Author's replies.
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61-01365
- Benford, H. & M. Kossa (1960)**
In 61-01336 : 320-31
 Construction—Costs of construction—An analysis of U.S. fishing boats: dimensions, weights and costs. Fr Es
- Chapters on: Weights; Construction costs; Proposed cost and weight system.
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61-01366
- Anon. (1960)**
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 Construction—Costs of construction—Discussion
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61-01367
- Gillmer, T. C. (1960)**
In 61-01336 : 341-7
 Sea behaviour—Resistance and propulsion—Model tests of some fishing launches. Fr Es
- Chapters on: Description of facilities and apparatus; Description of models tested; Test results.
- M
61-01368
- Otsu, Y., N. Yokoyama & T. Kobayashi (1960)**
In 61-01336 : 348-52
 Sea behaviour—Resistance and propulsion—Model tests of small simplified boats. Fr Es
- Chapters on: Model tests; Full-scale test; Comparison with similar sized boats.
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61-01369
- Tothill, J. T. (1960)**
In 61-01336 : 353-63
 Sea behaviour—Resistance and propulsion—An advanced hull and propeller design. Fr Es
- Chapters on: Model tests of five recent fishing boats; The design of an improved hull form; Propulsive factors affecting hull form; Resistance and stream flow tests; Effective powers for other sizes of vessel. Velocities in the nozzle; Design of the propeller; Self-propulsion tests; Delivered powers for other sizes of vessel; Trawling tests.

- M
61-01370
- Lackenby, H. (1960)**
In 61-01336 : 364-9
 Sea behaviour—Resistance and propulsion—Resistance of trawlers. Fr Es
 Chapters on: Methodical series resistance tests with trawler models; Series A—systematic variation of midship-section area; Series B—systematic variations in proportions.
- M
61-01371
- Doust, D. J. (1960)**
In 61-01336 : 370-87
 Sea behaviour—Resistance and propulsion—Statistical analysis of resistance data for trawlers. Fr Es
 Chapters on: Theory of minimal variance; Regression equation for trawler data; Practical uses of the regression equation.
- M
61-01372
- Dickson, W. (1960)**
In 61-01336 : 388-92
 Sea behaviour—Resistance and propulsion—The loads imposed by trawling gear. Fr Es
 CR 59-6554. Chapters on: Instruments used; Method adopted during trials; 'Explorer' towing trials; 'Mara' towing trials; Hauling trial. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (129).
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In 61-01336 : 393-403
 Sea behaviour—Seakindliness—New perspectives in sea behaviour. Fr Es
 Chapters on: Waves—irregular phenomena; Ship motions; Influence of main dimensions; Influence of longitudinal radius of gyration; Influence of bilge keels, sections, freeboard and sheer; Influence of metacentric height; Vertical accelerations; Motion in irregular seas; Loss of speed; Future developments.
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61-01374
- Möckel, W. (1960)**
In 61-01336 : 404-17
 Sea behaviour—Seakindliness—Behaviour of trawlers at sea—2. Fr Es
 Chapters on: Programme of investigations and the measuring instruments; Power output and speed in good weather; The ship in a seaway; The stability; Rolling and pitching.
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61-01375
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In 61-01336 : 418-21
 Sea behaviour—Seakindliness—Remarks on the shape of Dutch coastal fishing boats. Fr Es
 Chapters on: Speed and seakindliness; Comparison with finer boats; Comparison with fuller boats; Fuel oil and lubricating oil consumption.

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 Sea behaviour—Seakindliness—Tests with a trawler model in waves. Fr Es
- Chapters on: Particulars of ship and model test conditions; Results when trawling; Results when sailing.
- M
61-01377
- Traung, J.-O.** (1960)
In 61-01336 : 428-44
 Sea behaviour—Seakindliness—The prismatic coefficient. Fr Es
- Chapters on: Todd's steam drifter tests; NPL motor drifter tests; Graff and Heckscher's trawler tests; Allan's drifter tests; FAO tests; Self-propulsion tests; Wave tests; Trawling tests.
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61-01378
- Doust, D. J.** (1960)
In 61-01336 : 445-52
 Sea behaviour—Seakindliness—Trawler forms with bulbous bows. Fr Es
- Chapters on: Resistance characteristics in calm water; Propulsion characteristics in calm water; Performance in rough water.
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61-01379
- Taniguchi, K.** (1960)
In 61-01336 : 453-9
 Sea behaviour—Seakindliness—Tests of fishing boat models in waves. Fr Es
- Chapters on: Methods and apparatus used in the experiments; Effect of bow section form.
- MF
61-01380
- Chapelle, H. I.** (1960)
In 61-01336 : 460-7
 Sea behaviour—Seakindliness—Comments on hull design of fishing boats. Fr Es
- Chapter on: Resistance; Seaworthiness and seakindliness.
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- Jablonski, O.** (1960)
In 61-01336 : 468-74
 Sea behaviour—Stability—A method to determine freeboard in relation to stability. Fr Es
- Chapters on: Principles of freeboard determination on the basis of stability criteria; Graphical method for determining the curve KG_s ; Determination of critical loadings for fishing vessels to construct a curve of KG_0 .

- Takagi, A. (1960)** MF
In 61-01336 : 475-88 61-01382
 Sea behaviour—Stability—Notes on stability. Fr Es

Chapters on: Statistics of fishing vessel insurance; Trend in the principal dimensions of various types; Stability; Comments on a few stability criteria; Proposals for the assessment of fishing vessel's stability.

- Paulling, J. R., Jr. (1960)** M
In 61-01336 : 489-95 61-01383
 Sea behaviour—Stability—Transverse stability of tuna clippers. Fr Es

Chapters on: Effect of trim on transverse stability; The transverse stability on longitudinal waves.

- Wendel, K. (1960)** MF
In 61-01336 : 496-504 61-01384
 Sea behaviour—Stability—Safety from capsizing. Fr Es

Chapters on: Capsizing; Dimensioning of righting levers; Specification of moments; The righting levers; Alterations of the righting levers due to waves; Safety allowance; Stability criteria; Measuring stability.

- Miller, W. C. (1960)** M
In 61-01336 : 505-10 61-01385
 Sea behaviour—Safety at sea—Causes of accidents. Fr Es

Chapters on: Accident types; Investigation by model.

- Lackenby, H. (1960)** M
In 61-01336 : 511-14 61-01386
 Sea behaviour—Safety at sea—Formation of ice on trawlers. Fr Es

Chapters on: Head to wind; Wind 30° on the bow; Stern to wind; General comment.

- Anon. (1960)** M
In 61-01336 : 515-82 61-01387
 Sea behaviour—Discussion

Chapters on: Small boat resistance; Influence on nozzles; Bulbous bows; Statistical analysis of resistance; Fishing gear resistance; Sea behaviour theory; Observations of behaviour at sea; Model tests in waves; General design; Author's replies; The Chair's summing up; Stability; Safety at sea.

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In 61-01336 : 585-96
 Productivity—Symposium of boat types—Short distance fishing. Development of a boat for India's surf coasts. Fr Es
- Chapters on: Surf conditions; Development—first phase; Conclusions from first experiments; Development—2nd phase; Experiences from the tests with BB-57; Prototype 1958-BE58; Future work—mass production of BB-59.
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61-01389
- Beach, D. D. (1960)**
In 61-01336 : 597-608
 Productivity—Symposium of boat types—Short distance fishing. Commercial outboard fishing craft. Fr Es
- Chapters on: Florida mullet gillnet skiff; River gillnet tender; Oyster garvet; Salmon net tender; New England lobster boat; Salmon trolling dories.
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61-01390
- Foderá, V., R. Sará & A. Cambiano (1960)**
In 61-01336 : 609-14
 Productivity—Symposium of boat types—Short distance fishing. Trap-net boats and harpoon boats. Fr Es
- Chapters on: Tuna trap-net boats; Swordfish (*Xiphias gladius*) harpoon boats.
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61-01391
- Ringhaver, L. C. (1960)**
In 61-01336 : 615-23
 Productivity—Symposium of boat types—Medium distance fishing. Design and mass production of shrimp trawlers. Fr Es
- Chapters on: General arrangement; New trawling gear; production; Engine output and cruising range; Construction materials; Crew's comfort; Mass production; Cost and finance; Economics.
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61-01392
- Corlett, E. C. B. & J. Venus (1960)**
In 61-01336 : 624-30
 Productivity—Symposium of boat types—Medium distance fishing. Development of a trawler of unorthodox design. Fr Es
- Chapters on: Design; Construction and operation; Licensed building; Future developments.
- M
61-01393
- Boogaard, P. (1960)**
In 61-01336 : 631-7
 Productivity—Symposium of boat types—Medium distance fishing. The Netherlands post-war fishing fleet. Fr Es
- Chapters on: Shrimp trawler; Motor cutter; Trawler-drifter; Trawler.

M

Heinsohn, H. (1960)

61-01394

In 61-01336 : 638-53

Productivity—Symposium of boat types—Long distance fishing. Design studies for stern trawlers. Fr Es

Chapters on: Influence of the length of the gear; Manoeuvring of the ship during hauling and shooting; Fish holds and fish landing; Transport of fish from stern to hold; Fish meal plant; Complement and accommodation; Life-saving appliances; Classification and freeboard; Choice of main engines; Lines and stability; Trawl winches; 'Heinrich Meins'; 'Carl Kämpf'; 'Sagitta'; Performance.

M

Gueroult, E. R. (1960)

61-01395

In 61-01336 : 654-60

Productivity—Symposium of boat types—Long distance fishing. French deep sea salt cod trawlers. Fr Es

Chapters on: Introduction of diesel propulsion; Modern trawlers; Cargo capacity and stability; Short description of typical vessels.

M

Takahashi, S. (1960)

61-01396

In 61-01336 : 661-7

Productivity—Symposium of boat types—Long distance fishing. Diesel whale catchers. Fr Es

Chapters on: Increase of boat size and speed; New devices on catchers; Example of a modern Japanese diesel catcher; Comparison of diesel and steam propulsion.

M

Anon. (1960)

61-01397

In 61-01336 : 668-707

Productivity—Symposium of boat types—Discussion.

Chapters on: Surf boats; Short distance fishing; Medium distance fishing; Long distance fishing.

M

Swiecicki, J. (1960)

61-01398

In 61-01336 : 708-14

Productivity—Choice of size and type—Choice of boat type and size for Polish deep-sea fisheries. Fr Es

Chapters on: Aims of study; Subject of study; Range of study; Method of choosing the optimum fishing boat; General results.

M

Eddie, G. C. (1960)

61-01399

In 61-01336 : 715-22

Productivity—Choice of size and type—Propulsion and processing machinery for deep-sea trawlers. Fr Es

WFA 11 (5) : 9. Chapters on: Types of machinery; Design of diesel-electric equipment; Economics of speed; Economics of preservation.

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Sato, S. (1960)

M
61-01400

In 61-01336 : 723-34

Productivity—Choice of size and type—Modern factory ships in Japan.
Fr Es

Chapters on: Basic design; Fishing operations; Selection of types; Size of ships; Fuel and freshwater; Arrangement of factories; Conveyors; Refrigerating machinery; Freezing equipment; Cooling equipment for refrigeration of cargo holds; Insulation; Canning systems.

Anon. (1960)

M
61-01401

In 61-01336 : 735-59

Productivity—Discussion

Chapters on: Choice of size and type; Fishing boat of 1975.

Ropelewski, A. (1959)

M
61-01402

Prace Inst. morsk. Gdynia, 10A : 7-15

Trzydziestopięciolecie polskich badań na morzu (Thirty five years of Poland's exploration of the sea). En

Demel, K. & Z. Mulicki (1959)

MF
61-01403

Prace Inst. morsk. Gdynia, 10A : 19-33

Studia ilościowe nad fauna przydenna południowego Bałtyku (Quantitative studies on the near-bottom southern Baltic fauna). En Ru

Quantitative study of vagile epibenthos and its relations to the nature of bottom and hydrographical conditions.

Filarski, J. (1959)

MF
61-01404

Prace Inst. morsk. Gdynia, 10A : 35-52

Obserwacje hydrograficzne na południowym Bałtyku w latach 1953-1955 (Hydrological observations in the southern Baltic region in 1953-1955).
En Ru

Description of hydrographical conditions in southern Baltic in the years 1953 to 1955.

Filarski, J. et al. (1959)

MF
61-01405

Prace Inst. morsk. Gdynia, 10A : 53-67

Aparatura do zdalnego pomiaru temperatury i zasolenia wody morskiej (Apparatus for afar measuring of temperature and of sea water salinity).
En Ru

Description of the apparatus for *in situ* measurement of temperature and salinity—conductively method—and the results of test of the apparatus in the Baltic Sea.

MF

61-01406

Mańkowski, W. (1959)*Prace Inst. morsk. Gdynia*, 10A : 69-129

Badania makroplanktonu południowego Bałtyku w latach 1952-1955
(Macroplankton investigations of the southern Baltic in the period 1952-55).
En Ru

Discussion of the influence of varying hydrographical conditions on the occurrence and abundance of fish eggs and larvae and other macroplankton organisms and account of their abundance from 1952 to 1955 in southern Baltic Sea.

MF

61-01407

Mańkowski, W., S. Rutkiewicz & P. Ciszewski (1959)*Prace Inst. morsk. Gdynia*, 10A : 131-61

Wstępne studia nad produkcją planktonu w południowym Bałtyku (Preliminary studies on the plankton production in southern Baltic). En Ru

Quantitative seasonal and areal distribution of plankton in southern Baltic from 1947 to 1955 and estimates on the composition of the plankton by groups of spp.

MF

61-01408

Mulicki, Z. (1959)*Prace Inst. morsk. Gdynia*, 10A : 163-74

Warunki środowiskowe wieloszczeta *Harmothoe sarsi* Kinberg w Bałtyku
(The polychaet *Harmothoe sarsi* Kinberg and its environments in the Baltic Sea). En Ru

Depth and geographical distribution of the sp. and its temperature, salinity and oxygen requirements in its natural environment.

MF

61-01409

Piątek, W. (1959)*Prace Inst. morsk. Gdynia*, 10A : 175-92

Barwa i przezroczystość wody morskiej w pobliżu Gdyni w 1954 R. (Colour and transparency of sea water near Gdynia in 1954). En Ru

Seasonal variation of colour and transparency, their dependence on winds and cloudiness and the relation between transparency and colour.

MF

61-01410

Ringer, Z. (1959)*Prace Inst. morsk. Gdynia*, 10A : 193-214

Próba oszacowania biomasy flory litoralnej zalewu wiślanego na podstawie badań przeprowadzonych w 1955 R. (Experiments aiming to classify the litoral flora biomass in the Vistula Firth on the basis of investigations carried on in 1955). En Ru

Spp. of aquatic plants in the area, their communities and quantities.

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- MF
61-01411
- Szarejko-Lukaszewicz, D. (1959)**
Prace Inst. morsk. Gdynia, 10A : 215-28
 Badania hydrograficzne na zalewie Wiślanym w latach 1953-1954 (Hydrographic investigations on the Firth of Vistula in 1953-54). En Ru
 Description of the hydrography of the bay and its seasonal variation.
- MF
61-01412
- Wiktor, K. (1959)**
Prace Inst. morsk. Gdynia, 10A : 229-58
 Zooplankton zalewu Szczecińskiego—Część 2 (The Szczecin Firth zooplankton—Part 2). En Ru
 List of spp., their seasonal occurrence and areal distribution.
- MF
61-01413
- Wiktor, K. & D. Zembrzuska (1959)**
Prace Inst. morsk. Gdynia, 10A : 259-69
 Materiały do hydrografii zalewu Szczecińskiego (Materials for hydrography of Firth of Szczecin). En Ru
 Seasonal variations of salinity, temperature, oxygen and pH.
- MF
61-01414
- Chrzan, F. (1959)**
Prace Inst. morsk. Gdynia, 10A : 273-340
 Łosoś i troć w polskich połowach na Bałtyku w latach 1945-1955 (Salmon and sea-trout in Polish catches in the Baltic in the years 1945-1955) En Ru
 Besides catch statistics also weight and length composition of the catches given.
- MF
61-01415
- Cieglewicz, W. & W. Strzyzewski (1959)**
Prace Inst. morsk. Gdynia, 10A : 341-59
 Badania selekcji dorsza Bałtyckiego przez włok jako podstawa do ustalenia ochronnego rozmiaru oczek tej sieci (Investigations on the selection of the Baltic cod by cod-end as the basis for establishing of the minimum meshsize). En Ru
 Results of catching experiments with cod-ends made from different materials and different mesh sizes and recommendations for the introduction of minimum mesh size of the cod-end (80 mm).
- MF
61-01416
- Elwertowski, J. (1959)**
Prace Inst. morsk. Gdynia, 10A : 361-74
 Rozmieszczenie ławic rozrodczych dorsza w basenie Bornholmskim w latach 1950-1954 w świetle zmiennych czynników środowiska (Distribution of reproductive shoals of the cod in the Bornholm Basin in 1950-55 in view of the varying environment factors). En Ru
 The distribution of cod concentrations, seasonal variations and hydrographical factors influencing and/or determining the time and location of the concentrations.

- Elwertowski, J. & J. Maciejczyk (1959)** MF
Prace Inst. morsk. Gdynia, 10A : 375-82 61-01417

Wahania zawartości tłuszczu w szprocie zatoki Gdańskiej w zależności od warunków hydrograficznych i biologicznych (Changes of the fat content in the sprat of the Gdańsk Bay in relation to the hydrologic and biologic factors). En Ru

Relations between the fat content of sprat and the temperature of the water, maturity stage, length-weight ratio and growth.

- Fesolowicz, W. & J. Wiktor (1959)** MF
Prace Inst. morsk. Gdynia, 10A : 383-402 61-01418

Plastugi w Polskich Polowach przybrzeżnych w zatoce Pomorskiej (Flatfish in Polish Pomeranian Bay coastal catches). En Ru

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Length, weight, sex and year-class composition of the catches.

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(A three-clawed genus of the family Perlohmanniidae, Acarina: Oribatei)

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 Brief notes on the spp. found, and tabulation of their distribution, according
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 Goniodorididae)
 Describes *Okenia* (*Okenia*) *opuntia* Baba, *Okenia* (*Okenia*) *plana* Baba,
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Area of distribution, and movement of the western subspecies of the Australian "salmon", *Arripis trutta esper* Whitley

Evidence provided by commercial fishing, tagging operations, and direct observations of schools is used to give a general account of area of distribution and movements. Location of spawning area is considered. Implications with regard to total area of distribution and magnitude of the entire stock are discussed.

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An analysis of variation in Australian specimens of *Pinctada albina* (Lamarek) (Lamellibranchia)

Eight characters are investigated, in one group of which lie characters which modify shape of shell. In the other group lie characters which modify colour and size of shell.

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Material consisted of 20 embryos, 5-30 mm, and two fetuses, 63 mm and 90 mm, collected at whaling stations on Moreton and Norfolk Islands during late August to early October 1952-54 and 1956. The consecutive series permitted the study of membrane formation and organogenesis.

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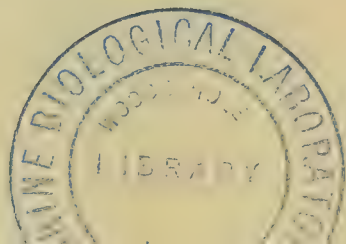
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M

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M

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Filamentous organisation of molluscan muscles

IABS 19 (1) 1446. Striated adductor of *Pecten* is divided into myofibrils, each of which is surrounded by a membrane.

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 Effect of visible radiation on the embryonic and larval development of the ringtrout (*Salmo irideus* Gibb.)
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 Experimental dissociation of cells from *Hydra*
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 (Presence of thyroid hormones (3 : 5 : 3'-triiodothyronine and thyroxine) in a tunicate, *Ciona intestinalis* L.). *Fr*
- IABS 19 (1) 2186.
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 Estimation of thyroid secretion rate of rainbow trout using radioactive iodine
- IABS 19 (1) 2187.
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- TA 15 (11) h2788. The great intertropical fishing grounds are discussed: (1) the Atlantic coast of Africa; (2) the Atlantic coast of tropical America; (3) the Pacific coast of tropical America; (4) the Pacific coast of tropical Asia; (5) the Central Pacific basin.
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Science, 132 (3433) : 1007-8
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- Re 61-01696.
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 Expanding shoals in areas of wave reflection
- Spits may grow seaward, despite wave attack, where wave energy level is low and have distinctive shapes. Study of Florida coast.
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 Molybdenum as a factor limiting primary productivity in Castle Lake, California
- Trace-element deficiency is evident from carbon-14 bioassays of natural phytoplankton populations. Increase in photosynthetic rates with addition of molybdic acid or sodium molybdate demonstrated throughout the year.

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Science, 132 (3436) : 1308
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Ann. Mag. nat. Hist., 2 (13) : 705-14
 A list of parasitic worms, including 22 new records, from marine fishes caught off the British Isles

17 helminths recorded for first time in Britain, five are new host records, Irish Sea, E and W coast of Scotland, western English Channel, W coast of Ireland—commercial and research vessels. 738 fish specimens of 46 spp., 845 spp. of Monogenea, Digenea, Aspidogastrea, Cestoda and Nematoda so far identified. Fish spp. mainly elasmobranchs, gadids and other demersals.

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 A new species of Sabellidae (Annelida, Polychaeta) from Southern California

Short ill. description of *Euchone limnicola* n. sp.

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BA 35E (18) 51538.

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Canad. Ent., 92 (4) : 275-8

Notes on the water beetles of Southampton Island in the Canadian Arctic (Coleoptera: Dytiscidae and Halipidae)

BA 35E (18) 51566. Notes on 7 dytiscids and 1 halipid.

Benson, P. H. & D. D. Chivers (1960)

M
61-01707

Veliger, 3 (1) : 16-9

A pycnogonid infestation of *Mytilus californianus*

BA 35E (18) 51632. 32 specimens collected in Marin County, California, were examined. 16 exhibited varying infestations by *Achelia chelata* (Hilton). Occurrence of *A. chelata* and previous pycnogonid-lamellibranch associations are cited.

Ziegler, A. C. (1960)

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61-01708

Veliger, 3 (1) : 19-22

Annotated list of Pycnogonida collected near Bolinas, California

BA 35E (18) 51633. Report based on 300 individuals of 11 spp. taken on the central California coast during Jul. 1958. Ecological data and notes on morphology of adults and young.

Cate, C. N. (1960)

M
61-01709

Veliger, 3 (1) : 3-7

A new subspecies of *Cypraea cernica* from Hawaii. *Cypraea cernica marielae* n. subsp.

BA 35E (18) 51635.

Shasky, D. R. (1960)

M
61-01710

Veliger, 3 (1) : 22-3

Deep water collecting off Guaymas, Mexico

BA 35E (18) 51643. Brief résumé of a trawling expedition during Dec. 1959, with check list of the rarer molluscs collected.

Sphon, F. G., Jr. (1960)

M
61-01711

Veliger, 3 (1) : 31

Range extension of two Panamic gastropods

BA 35E (18) 51644. Range of *Mitra erythrogramma* Tomlin, 1931, is extended from Nicaragua to Bahia San Luis Gonzaga, Baja California, Mexico. Range of *Crassispira grandimaculata* (C. B. Adams, 1852) is extended from Nicaragua to Puertecitos, Baja California, Mexico. Based on material collected by the author in Dec. 1959 and Jan. 1960.

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Bull. Mus. Hist. nat., Paris, 31 (1) : 105-11
 Échinodermes de La Guyane Française (Crinoides, astérides, ophiurides, échinides, holothurides) (Echinoderms of French Guiana)
- BA 35E (18) 51645. A list of spp. collected and descriptions of several starfish.
- M
61-01713
- Cherbonnier, G. (1959)**
Bull. Mus. Hist. nat., Paris, 31 (2) : 168-72
 Échinodermes de La Guyane Française (Crinoides, astérides, ophiurides, échinides, holothurides) (2^e note) (Echinoderms of French Guiana—2nd note)
- BA 35E (18) 51646.
- MF
61-01714
- Gosline, W. A. (1960)**
Bull. Brit. Mus. (nat. Hist.) (Zool.), 6 (6) : 325-65
 Contributions toward a classification of modern isospondylous fishes
- BA 35E (18) 51651. First section traces caudal skeleton through the whole group. Section 2 deals with classification and relationships of salmonids, and section 3 with gonorhynchoid fishes and their relationships.
- F
61-01715
- Zanandrea, G. S. J. (1959)**
Arch. Zool. ital., Napoli, 44 : 215-50
 Lamprede parassite e non parassite nel bacino del Danubio e la nuova entità sistematica *Eudontomyzon danfordi vladykovi* (Parasitic and non parasitic lampreys of the Danubian Basin and the new taxon *Eudontomyzon danfordi vladykovi*)
- BA 35E (18) 51653.
- M
61-01716
- Lützen, J. (1959)**
Medd. Grønland, 81 (5) : 1-49
 Sessile Tunicata (Ascidacea)
- BA 35E (18) 51648. Ascidians from western Greenland are described. 26 spp. are listed of which one, *Synoicum vibei*, is new. Geographical distribution is discussed and the spp. are compared with those from eastern America, Europe, the Pacific and elsewhere.

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-078me to 61-157me

FAO. 14/9/59

Rome, Italy. 8 days

World scientific meeting on the biology of sardines and related species

M
61-078me

N.Y. Academy of Sciences. 15/5/61

New York, N.Y., U.S.A. 2 days

Conference on "Blood groups in infrahuman species"

G
61-079me

Office of Naval Research. 30/3/61

Bimini, Bahamas. 3 days

Conference on marine animal sounds

M
61-080me

Canada. Ministry of Agriculture. 23/10/61

Montreal, Canada. 6 days

Resources for tomorrow conference

MF
61-081me

Will consider water and fisheries resources management in Canada.

Ghana Science Association. 31/3/62

Lagon, Ghana. 4 days

Conference on "Science in the development of Ghana"

MG
61-082me

Incl. among the papers presented one on "Seas and oceans" and one on "Outboard-motor as a prime mover in the development of fisheries in Ghana".

EIFAC. 7/5/62

Paris, France. 6 days

2nd Session

F
61-083me

Will incl. field trips. Agenda will cover a review of European inland fisheries problems; review of some principal European spp.; preparation of a European directory for inland fisheries institutes and water pollution problems.

British Association for the Advancement of Science. Aug./61

Norwich, U.K.

Meeting

G
61-084me

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

Phycological Society of America. 28/8/60 MF
61-085me
Stillwater, Okla. 6 days
15th Annual meeting

In conjunction with 60-134me.

Committee of International Congresses on Metallic Corrosion. 10/4/61 MF
61-086me
London, U.K. 6 days
1st International congress on metallic corrosion

Papers read incl. 61-12787, 61-12788 and 61-12789.

American Geophysical Union. 18/4/61 MF
61-087me
Washington, D.C. 4 days
42nd Annual meeting

AAAS, Alaska Division. 28/8/61 MF
61-088me
College, Alaska. 5 days
12th Alaskan science conference

AIBS. 28/10/61 M
61-089me
Princeton, N.J., U.S.A. 5 days
1st Conference on marine biology

AIBS, Shark Research Panel. Aug./61 M
61-090me
Honolulu, Hawaii.
Conference on anti-shark measures

Review of anti-shark measures by world regions; Evaluation of anti-shark measures proposed and/or currently employed; Methods of testing anti-shark devices and agents. Agencies supporting research related to the shark hazard problem; Role of Shark Research Panel as a co-ordinating agency.

American Meteorological Society. 18/6/61 G
61-091me
Davis, Calif., U.S.A. 6 days
193rd National meeting

Atomic Energy Commission/AIBS. 11/9/61 MF
61-092me
Colorado State University, Fort Collins, Colo., U.S.A. 5 days
Symposium on radioecology

Program topics include occurrence and effects of nuclides in freshwater and marine environments, radioecological techniques, instrumentation, fallout and radiobiology.

MEETINGS

- | | |
|--|---------------------------------|
| <p>CAB, Animal Nutrition. 14/10/61
 London, U.K. 3 days
 Informal conference on machine retrieval of information on nutrition and food technology
 Incl. discussion of a draft classification, which contains specific reference to aquatic organisms; collaboration with FAO Fisheries Division.</p> | <p>MF
 61-093me</p> |
| <p>CPCERMPS. 2/10/61
 Santiago, Chile.
 Extraordinary meeting</p> | <p>M
 61-094me</p> |
| <p>Canadian Federation of Biological Societies. 31/5/61
 Guelph, Ont. 3 days
 Meeting</p> | <p>G
 61-095me</p> |
| <p>Centre National de la Recherche Scientifique. 24/7/61
 Montpellier, France. 3 days
 International colloquium on the "Physiology of the <i>Hippocampus</i>"</p> | <p>M
 61-096me</p> |
| <p>FAO. 11/9/61
 Moscow, USSR. 5 weeks
 Seminar and study tour for fishery administrators from the Indo-Pacific and Mediterranean regions
 Amendment to 61-050me.</p> | <p>MF
 61-097me</p> |
| <p>FAO. 23/8/61
 Tulagi, British Solomon Islands Protectorate. 9 weeks
 Training centre on fishing methods and mechanization for South Pacific Commission countries and territories
 Amendment to 61-052me</p> | <p>M
 61-098me</p> |
| <p>FAO. 19/9/61
 Washington, D.C., U.S.A. 9 days
 "Fish in nutrition" meeting
 Amendment to 60-262me.</p> | <p>M
 61-099me</p> |
| <p>FAO. 18/12/61
 Rome, Italy. 4 days
 Consultants' meeting on marine biogeography
 Amendment to 61-051me. Postponed until further notice.</p> | <p>M
 61-100me</p> |
| <p>FBA (UK). 20/6/61
 London, U.K. 1 day
 Annual general meeting</p> | <p>F
 61-101me</p> |

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

- IAEA.** 11/9/61 M
61-102me
Vienna, Austria. 5 days
Meeting of joint scientific and legal panel on legal implications of disposal of radioactive waste into the sea
- ICSU/SCOR.** 14/8/61 M
61-103me
New Delhi, India. 4 days
Meeting of zooplanktologists to discuss proposal for a biological centre and zooplankton progress to be carried out in connection with the Indian Ocean investigations
- ICSU/SCOR.** 1/11/61 M
61-104me
Monaco. 3 days
5th Meeting

Amendment to 60-294me.
- IOF.** 15/11/61 M
61-105me
Miami Beach, Fla., U.S.A. 1 day
6th International gamefish conference

Meeting of anglers, guides and biologists to discuss problems dealing with salt-water game fishes.
- IPFC, Executive Committee.** Sept./61 MF
61-106me
Rangoon, Burma.
33rd Meeting
- Institute of Navigation (U.K.).** 25/10/61 M
61-107me
London, U.K. 1/2 day

Duke of Edinburgh's lectures: "Navigation and the science of the sea", by G. E. R. Deacon.
- International Phycological Society.** 23/9/61 MF
61-108me
Biarritz, France. 1 day
1st Meeting

In association with 60-179me.
- Marine Biological Laboratory, Woods Hole.** 2/7/61 M
61-109me
Woods Hole, Mass. 6 days
Meeting
- NATO Advanced Study Institutes Programme.** Aug./61 M
61-110me
Reykjavik, Iceland.
Symposium on North Atlantic biota and their history

MEETINGS

- | | |
|--|-------------------------|
| <p>Oak Ridge Institute of Nuclear Studies. 6/11/61
 Oak Ridge, Tenn., U.S.A. 12 days
 Course on the application of nuclear methods to oceanography</p> | <p>M
 61-111me</p> |
| <p>Oceanographic Society of Japan. 8/11/61
 Tokyo, Japan. 2 days
 General meeting of the society on its 20th anniversary

 In association with 61-113me.</p> | <p>M
 61-112me</p> |
| <p>Oceanographic Society of Japan. 10/11/61
 Tokyo, Japan. 2 days
 International symposium on deep-sea research

 In association with 61-112me.</p> | <p>M
 61-113me</p> |
| <p>Operations Research Society of America. 8/11/61
 San Francisco, Calif., U.S.A. 3 days
 20th National meeting</p> | <p>G
 61-114me</p> |
| <p>Paraguay, Ministerio de Agricultura y Ganadería. 24/7/61
 Asunción, Paraguay. 6 days
 Primer seminario nacional de caza y pesca [First national seminar on game and fishery]</p> | <p>MF
 61-115me</p> |
| <p>Sweden, Fisheries Division. 11/8/61
 Helsingborg, Sweden. 17 days
 Maritime exposition</p> | <p>M
 61-116me</p> |
| <p>Thunderbird Enterprises Ltd. 31/10/61
 London, U.K. 4 days
 2nd Exhibition on effluents and treatment of waters</p> | <p>F
 61-117me</p> |
| <p>UNESCO. 25/10/61
 Paris, France. 35 days
 6th Session of the executive board</p> | <p>G
 61-118me</p> |
| <p>UNESCO. 20/11/61
 Concepción, Chile. 6 days
 Seminario latino-americano sobre estudios oceanográficos [Latin-American seminar on oceanographic research]

 Agenda: Physico-chemical oceanography—Present status (Z. Popovici); Physics and chemistry of the sea; Hydrodynamics (I. Emilsson); Marine geology (P. Roa Morales). Marine biology—Present status (E. Rioja); Plankton studies (M. Vannucci); Algae (O. Kühnemann); Marine invertebrates (R. Ringuelet); Crustaceans (N. Bahamonde); Molluscs (J. Stuardo); Marine vertebrates (V. Angelescu); Aquatic mammals (I. Ximenez); Physiology of marine organisms (P. Sawaya); Proposals for regional projects (F. de Buen).</p> | <p>M
 61-119me</p> |

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

UNESCO, International Advisory Committee on Bibliography, Documentation and Terminology. 25/9/61 G
61-120me
Paris, France. 5 days
1st Session

Zoological Society of London. 3/5/61 MF
61-121me
London, U.K. 1 day
7th Whole-day symposium on "Biological acoustics"

Zoological Society of London/ASAB. 8/11/61 MG
61-122me
London, U.K. 2 days
8th Symposium of the Society, jointly with ASAB, on "Evolutionary aspects of animal communication" and "Imprinting and early learning"

Latter part will incl. paper by M. J. Wells on "Early learning in *Sepia*".

UNESCO. 27/11/61 M
61-123me
Viña del Mar, Chile. 2 days
I Reunion de directores de laboratorios costeros latino-americanos [1st Meeting of directors of Latin-American coastal laboratories]

UNESCO. 23/11/61 M
61-124me
Concepción, Chile. 2 days
II Seminario latino-americano sobre plancton [2nd Latin-American symposium on plankton]

Caribbean Council. 20/11/61 MF
61-125me
Puerto Rico. 4 days
Meeting of fisheries officers of the Caribbean area

Agenda incl. consideration of status of fisheries in countries, establishment of a Standing Advisory Committee for Fisheries, proposals for technical assistance; opportunities for regional cooperation in research, education, development, regulation, cooperation and trade.

ASLO, Pacific Section. June/61 M
61-126me
Davis, Calif., U.S.A. 1 day
Symposium on "Biological implications of radioactive isotopes in the sea"

In conjunction with 61-044me. Contributions by W. Royce, B. H. Ketchum, E. Held, M. Waldichuk, O. E. Sette, J. Hedgpeth, W. Aron.

INPFC. 6/11/61 M
61-127me
Tokyo, Japan. 6 days
8th Meeting

Amendment to 60-320me. Principal issues discussed are: Whether to move the present provisional abstention line, westward from its position at 175° W, and whether the three member nations are satisfied that the stocks of herring off the Canadian coast are such as to continue to warrant abstention under the terms of the Convention.

MEETINGS

- | | |
|--|----------------|
| GFCM. 17/10/61
Rome, Italy. 2 days
22nd Meeting of the executive committee | M
61-128me |
| U.S. Department of the Interior. 16/8/61
Washington, D.C. 2 days
Symposium on oceanographic instrumentation | M
61-129me |
| University of Padua, Italy. 29/9/61
Padua, Italy. 3 days
Symposium on the experimental method in biology | G
61-130me |
| GCFI. 13/11/61
Miami Beach, Fla. 5 days
14th Annual session
Amendment to 60-238me. Incl. sessions on fisheries, oceanography, estuarine problems, shrimp research, the Caribbean fisheries and reviews of international fishery meetings. Simultaneously with 61-105me, 61-132me, 61-133me, 61-134me and 61-135me. | MF
61-131me |
| Shrimp Association of Americas. 13/11/61
Miami Beach, Fla.
Semiannual meeting

Simultaneously with 61-131me. | M
61-132me |
| Southeastern Fisheries Association. 13/11/61
Miami Beach, Fla.
Quarterly meeting

Simultaneously with 61-131me. | M
61-133me |
| National Fisheries Institute, Area III. 13/11/61
Miami Beach, Fla.
Members meeting

Simultaneously with 61-131me. | MF
61-134me |
| National Shrimp Congress. 13/11/61
Miami Beach, Fla.
Board of directors meeting | M
61-135me |
| Scottish Marine Biological Association. 21/3/62
Millport, Isle of Cumbrae. 15 days
Course in marine biology | M
61-136me |

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- Scottish Marine Biological Association.** 5/9/62 M
61-137me
 Millport, Isle of Cumbrae. 15 days
 Course in marine biology
- IAL.** 20/8/62 F
61-138me
 Madison, Wis., U.S.A. 6 days
 15th International congress of limnology
- FBA (UK).** 4/4/62 F
61-139me
 Windermere, U.K. 14 days
 Vacation course in freshwater biology
- FAO.** 12/7/62 M
61-140me
 La Jolla, Calif., U.S.A. 13 days
 World scientific meeting on the biology of tunas and related species
 Will consider species identification and distribution, population identification, size and composition of stocks, availability (accessibility and vulnerability), physiology and behaviour, fishing methods and future lines of tuna research.
- Marine Biological Association of U.K.** 15/3/62 M
61-141me
 Plymouth, U.K. 14 days
 Course in marine biology
- Marine Biological Association of U.K.** 2/4/62 M
61-142me
 Plymouth, U.K. 13 days
 Course in marine biology
- Lalor Foundation.** 1962 M
61-143me
 Woods Hole, Mass.
 Post-graduate summer or short-term research awards at Marine Biological Laboratory, Woods Hole, on biochemical and physiological mechanisms concerned with fertility and early stages of reproduction.
- ACC.** 9/1/62 M
61-144me
 Paris, France. 2 days
 2nd Meeting of the sub-committee on oceanography
- ICNAF.** 4/6/62 61-145me
 Moscow, USSR. 6 days
 12th (11th Annual) meeting
- ICNAF, Standing Committee on Research and Statistics.** 28/5/62 M
61-146me
 Moscow, USSR. 1 week?
 Meeting
 Precedes 61-144me.

MEETINGS

IMCO. 26/3/62	M
London, U.K. 19 days	61-147me
International conference on prevention of pollution of the sea by oil	
International Association of Game, Fish and Conservation Commissioners. 10/9/62	MF
Jackson, Wyo., U.S.A. 6 days	61-148me
Convention	
International Congress of Food Science and Technology. 18/9/62	G
London, U.K. 4 days	61-149me
1st Meeting	
International Congress on the History of Science. 26/8/62	G
New York and Pennsylvania. 8 days	61-150me
IHB. 8/5/62	M
Monte Carlo, Monaco. 1 day	61-151me
7th International hydrographic conference	
INPFC, Committee on Biology and Research. 1/10/61	M
Tokyo, Japan. 20 days	61-152me
Working party on high seas salmon distribution—Meeting	
Operations Research Society of America. 9/5/62	G
Washington, D.C., U.S.A. 3 days	61-153me
21st National meeting (19th annual)	
Systematics Association/Challenger Society. 27/9/61	M
Plymouth, U.K. 3 days	61-154me
Symposium on speciation in the sea	
University of Rochester. 13/7/61	G
Rochester, N.Y., U.S.A. 2 days	61-155me
Data acquisition and processing in biology and medicine	
USPHS. 13/8/62	F
Cincinnati, Ohio, U.S.A. 4 days	61-156me
3rd Seminar on biological problems in water pollution	

Immediately before 61-138me. Theme will be "Water quality criteria for the protection of aquatic life". Panel and informal discussions of the habitat or environmental requirements of various groups of aquatic organisms, freshwater, marine and estuarine. Special emphasis on the toxicity of industrial wastes, pesticides, detergents and other synthetic organics; the dissolved oxygen and temperature requirements; the effects of pH, CO₂ and other dissolved materials on toxicity, oxygen and temperature requirements; and the direct and indirect effects of silt and turbidity.

**WHO/OEED/Association Française pour l'Étude des Eaux/
Abwassertechnische Vereinigung (GFR)/Foreningen for Vattenhygien
(Sweden)/Water Pollution Control Federation (USA)/Institute of
Sewage Purification/Inst. of Public Health Engineers/River Board
Association/Scottish River Purification Board Association (U.K.).
3/9/62**

MF
61-157me

London, U.K. 5 days

International conference on water pollution research

Sections on (1) Self-purification of freshwater streams and the effects of pollution on fisheries; (2) Treatment of sewage and industrial wastes; (3) Effects of pollution on the marine environment.

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Norway. Committee for Whaling Statistics (Ed.) (1960)
Int. Whal. Statist., (44) : 56 p.

Introductory review of statistics for season 1958–59 followed by tables of catches and effort by country, area, spp., sex and size; oil production; measurement of fetuses

M
61-01750

Anon. (1960)
Life int., 29 (11) : 51–72
The new portrait of our planet

This article, first of a series, is concerned mainly with topography and structure of ocean floor. Many relief maps, in colour.

M
61-01751

Lear, J. (1961)
New Scient., 12 (258) : 232–
How oceanography may help the hungry

The co-operative exploration of the Indian Ocean undertaken by countries represented on the Special Committee on Oceanographic Research of the International Council of Scientific Unions, and prospects of work.

MG
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Anon. (1961)
New Scient., 12 (258) : 238
A deep sea winch

An electro-hydraulically operated winch for lowering and hauling up hydrographic instruments.

MF
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Bondurant, S. et al. (1958)
J. aviat. Med., 29 : 872–8

Effect of water immersion on human tolerance to forward and backward acceleration

PA 34 (1) 325. Respiration was maintained during acceleration by use of a system modified from that used by skin divers.

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61-01754
Zh. vyssh. nerv. Deiat., 8 (6) : 937-41
 O tsentral'nom zvens analizatora bokovoï linii ryb (On the central link of the analyzer of the lateral line organ in fish)
- PA 34 (1) 385. Attempt was made to locate that part of the brain in ordinary and golden crucian carp which takes part in the formation of conditioned responses to stimulation of the lateral line. Extirpation of parts of the brain was combined with application of the conditioned-reflex method.
- Shanks, W. E. & J. E. Halver (1960)** G
61-01755
Progr. Fish-Cult., 22 (2) : 51-8
 Rapid analysis of the amino acid content of fish diets
- Describes three methods of assay—microbiological, chromatographic and enzymatic—applied to standard casein and commercial fish diets and compares for accuracy, rapidity and economy.
- Webster, D. A. & W. Flick (1960)** F
61-01756
Progr. Fish-Cult., 22 (2) : 59-63
 Results of planting kokanee salmon in two Adirondack mountain lakes, New York
- Describes experiments with *Oncorhynchus nerka*—one purpose being to observe its possible use as forage for landlocked *Salmo salar*.
- Thompson, R. B. & R. H. Van Haagen (1960)** G
61-01757
Progr. Fish-Cult., 22 (2) : 63
 A portable conductivity meter for use with electrofishing gear
- Describes a light weight, small (3 per 4 per 6 inches), durable, and rapid-operating meter with range of 100 to 300,000 ohms adapted from a transistorized moisture meter.
- Wolf, K., C. E. Dunbar & S. F. Snieszko (1960)** F
61-01758
Progr. Fish-Cult., 22 (2) : 64-8
 Infectious pancreatic necrosis of trout. 1. A tissue-culture study
- Describes studies to find susceptible tissues and suitable methods to permit isolation of this agent from diseased trout and to permit its cultivation *in vitro*, to test the hypothesis of a virus cause, and to determine, if possible, some of the attributes of the agent which caused the disease.
- Smoker, W. A. & S. W. Marble (1960)** MF
61-01759
Progr. Fish-Cult., 22 (2) : 68
 Plastic wading pools used as portable circular rearing tanks for salmon fry
- Describes their modification for this use.

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61-01760
- Bailey, J. E. (1960)**
Progr. Fish-Cult., 22 (2) : 69-72
 Cost in relation to size of Montana's hatchery trout

An analysis to determine cost per fish and per pound of rearing and planting large—7 inches or greater—trout in relation to that for smaller ones.

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61-01761
- Horel, G. & M. T. Huish (1960)**
Progr. Fish-Cult., 22 (2) : 73-6

The effects of fish removal and other factors upon remaining fish populations at Lake Trafford, Florida

Describes an experiment to determine changes in rough-fish and game-fish populations during and after removal by haul seine.

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61-01762
- Rucker, R. R., J. F. Conrad & C. W. Dickeson (1960)**
Progr. Fish-Cult., 22 (2) : 77-8
 Ovarian fluid: its role in fertilization

Describes a study which presents evidence that sperm from cutthroat trout, *Salmo c. clarkii*, and silver salmon, *Oncorhynchus kisutch*, were activated by ovarian fluid, that the ovarian fluid prolonged the viability of the sperm, and that eggs can be fertilized in ovarian fluid without the addition of water.

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61-01763
- Lewis, W. M. (1960)**
Progr. Fish-Cult., 22 (2) : 79-80
 Suitability of well water with a high iron content for warm-water fish culture

Describes observations and experiments at a fish hatchery using well water containing 35 p.p.m. total iron but which was quite satisfactory for *Notemigonus* and *Pimephales*.

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61-01764
- Lux, F. E. (1960)**
Progr. Fish-Cult., 22 (2) : 81-2
 Notes on first-year growth of several species of Minnesota fish

Presents tables showing mean lengths of *Notropis hudsonius*, *Hyborhynchus notatus*, *Boleosoma nigrum*, *Fundulus diaphanus*, *Esox lucius*, *Micropterus salmoides*, *Lepomis macrochirus*, *L. gibbosus* and *Perca flavescens* at successive intervals during May-mid-Oct. 1954 in Linwood L.

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61-01765
- Tarrant, R. M., Jr. (1960)**
Progr. Fish-Cult., 22 (2) : 83-4

Choice between two sizes of forage fish by largemouth bass under aquarium conditions

Describes experiments showing preferences of *Micropterus salmoides* of different sizes for *Lepomis cyanellus* of different sizes.

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- Larsen, C. M. & B. E. Skud** (1960)
Progr. Fish-Cult., 22 (2) : 85-6
 Techniques for studying herring scales and otoliths
- Describes (1) a technique for mounting and photographing Atlantic herring, *Clupea harengus*, scales and (2) a technique for clearing and photographing herring otoliths.
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61-01767
- Schwartz, F. J.** (1960)
Progr. Fish-Cult., 22 (2) : 87-9
 Inexpensive self-cleaning inverse aquarium filter
- Describes construction and operation of a filter adequate for a 40-gallon aquarium.
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- Ellis, R. O.** (1960)
Progr. Fish-Cult., 22 (2) : 89
 Aerator from a two-stage fuel pump used in transporting live fish
- Describes method of fitting and operation.
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61-01769
- Qadri, S. U.** (1960)
Progr. Fish-Cult., 22 (2) : 90-1
 A small drag net for capture of bottom fish and invertebrates
- Describes construction, operations, and advantages and disadvantages of a net which can be used effectively on sand and sand-mud flats in water up to at least 20 feet in depth.
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- Marecek, F.** (1960)
Progr. Fish-Cult., 22 (2) : 92-3
 The thermos box for fish-culturists with ice problems
- Describes construction and operation of an insulated box that can be placed above holes in ice to prevent them from freezing over; used on trout rearing ponds.
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61-01771
- Soong, M. K.** (1960)
Progr. Fish-Cult., 22 (2) : 93
 Shell "Endrex" used as a fish toxicant
- A note on the use of an emulsifiable solution of endrin to remove fish from mining pools and fish ponds in Malaya.
- F
61-01772
- Miller, R. R.** (1960)
Progr. Fish-Cult., 22 (2) : 94-6
 Rainbow trout in Mexico and California with notes on the cutthroat series
- Re 60-2923 containing a discussion of classification, distribution and origins of various trout stocks of *Salmo gairdnerii* and *S. clarkii*.

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- Patten, B. C. (1960)**
Mimeo, 30 p.
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- CR 59-7287. Applies information theory in consideration of "law of competitive exclusion", drawing, for terminology, from ecology, population theory cybernetics and biochemistry. Contribution to Annual Meeting of Soc. Gen. System. Res. 1960/61.
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- Stewart, C. P. & A. Stolman (Ed.) (1960)***
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Toxicology. Mechanisms and analytical methods. Vol. 1
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- Stewart, C. P. & A. Stolman (Ed.) (1961)***
New York, Academic Press, 700 p.
Toxicology. Mechanisms and analytical methods. Vol. 2
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- The Rockefeller Foundation (1960)**
Rockefeller Fdn Grants, 11 (2) : 32 p.
- Incl. notes on grants to Plymouth Marine Biological Laboratory for biochemical and physiological apparatus; to marine scientists to participate in SCOR Indian Ocean Project meetings; to V. J. Chapman, New Zealand, for marine biological research.
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- The Rockefeller Foundation (1960)**
Rockefeller Fdn Grants, 11 (3) : 26 p.
- Incl. notes on grants to Espeland Biological Station of University of Bergen and to Elsinore Marine Biological Institute of University of Copenhagen.
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 Stockholm, Almqvist & Wiksell, 553 p.
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 61-01782
- Re 61-01781.
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Nature, Lond., 187 (4743) : 1107-8
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 61-01783
- Describes results of analyses from 25 widespread stations in which no trace of perchlorate could be found, and suggests that results of Baas Becking, Haldane and Izard reporting its presence were in error.
- Kikuchi, R., K. Naito & S. Minagawa** (1960)
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- Paul, D. H.** (1960)
Nature, Lond., 187 (4743) : 1121
 The membrane potential of the anterior byssus retractor muscle of *Mytilus edulis*
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 61-01785
- Describes methods and results of intracellular recording.
- Knox, G. A.** (1960)
Nature, Lond., 187 (4743) : 1131
 The polychaete family Longosomidae in New Zealand
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 61-01786
- Records for the first time the occurrence of the family elsewhere than in California.
- Swift, D. R.** (1960)
Nature, Lond., 187 (4743) : 1133
 An improved feed for experimental fish
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- Describes use of a preparation of minced liver, salt and gelatine to avoid fouling in aquaria with low flow.

FAO/NERO (1960)MF
61-01788*FAO in the N.E.*, (1) : 45 p.

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Job, T. J. (1960)F
61-01789*FAO in the N.E.*, (1) : 2-14

Fish crops from multipurpose dams in the Middle East

A review of possibilities, with bibliography.

Catasta, L. (Ed.) (n.d. 1960)M
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Roma, Ministero della Marina Mercantile, Mem. (3), 32 p.

Primi studi e ricerche per migliorare il rendimento della rete a strascico (First studies and researches to improve the efficiency of trawl nets)

Underwater SCUBA observations of behaviour of Mediterranean trawl. Trials of means of getting greater headline height and distance between boards; tests with float designs and hydrodynamic otter boards. Consideration of effects of mesh size.

The British Ecological Society (1960)MF
61-01791

Mimeo, 12 p.

Symposium on the exploitation of natural animal populations. Durham—28-31 March 1960. Abstracts of papers in order of presentation

Contains 61-01792 to 61-01806.

Parrish, B. B. (1960)M
61-01792*In* 61-01791 : 1

Problems concerning the population dynamics of the Atlantic herring, with special reference to the North Sea

Abstr. only. Main changes which have taken place in the North Sea catches are examined in the light of changes in the nature and amount of exploitation by the fisheries, and the interpretation of the relationship between them is discussed. The general dynamic properties of the herring, in relation to exploitation, are also discussed in the light of modern conservation practices.

Hancock, D. A. & A. C. Simpson (1960)M
61-01793*In* 61-01791 : 1-2

Parameters of marine invertebrate populations

Abstr. only. Discusses methods and difficulties involved in estimating parameters of molluscs and Crustacea.

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In 61-01791 : 2
An application of comparative population studies to fisheries biology
- Abstr. only. Reveals that ratio size at maturity/final size varies over a restricted range, but it is correlated with K. Implications of this relation are considered with regard to the use of maturity studies in stock assessment.
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In 61-01791 : 5
Population studies on the minke whale (*B. acuto rostrata*)
- Abstr. only. Analyzes distribution of catch, maturity, recruitment and catch per unit effort. Discusses decline in catch.
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- Laws, R. M. (1960)**
In 61-01791 : 5
Some effects of whaling on the southern stocks of baleen whales
- Abstr. only. Concerns *Baleanoptera physalus* and antarctic pelagic whaling. States that survival curve has steepened, and recruitment is insufficient to maintain the stocks.
- M
61-01797
- McLaren, I. A. (1960)**
In 61-01791 : 6
Population dynamics and the exploitation of seals in the eastern Canadian Arctic
- Abstr. only. Calculates maximum sustainable hunting-yields of *Pusa hispida* and *Erignathus barbatus*.
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- Watt, K. E. F. (1960)**
In 61-01791 : 6
The conceptual formulation and mathematical solution of practical problems in population input-output dynamics
- Abstr. only. Data from, and techniques for various types of cases are discussed.
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61-01799
- Gulland, J. A. (1960)**
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The application of mathematical models to exploited fish populations
- Abstr. only. Summarizes mathematical models used at present, and advocates necessity for some method of taking into account a random element, particularly in the relation between stock and recruitment.

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- Slobodkin, L. (1960)**
In 61-01791 : 7
Predation and energetics in experimental populations
- Abstr. only. Laboratory experiments on populations of *Daphnia*, *Dugesia*, *Hydra* and *Chlorohydra*.
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- Beverton, R. J. H. (1960)**
In 61-01791 : 8
Some observations on the mechanisms of population balance in fish
- Abstr. only. Suggests that competitive feeding, coupled with a corresponding size spectrum of the food organisms which restricts the grazing of a fish to those food organisms which are small enough for it to eat, may be the key to understanding how larval competition in the sea acts as a controlling mechanism of population size. Concludes by some comments on the extent to which such a mechanism could be regarded as of general significance in controlling the size of fish populations. Incl. aquarium observations on *Betta splendens* and provides data for *Pleuronectes platessa*.
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In 61-01791 : 9-10
On some adaptations to the regulation of population density in fish species with different types of stock structure
- Abstr. only.
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61-01803
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In 61-01791 : 10
The effect of seal stocks on Scottish marine fisheries
- Abstr. only. Refers briefly to the grey seals protection acts and to events leading up to them.
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- Shearer, W. M. (1960)**
In 61-01791 : 11
Seals and salmon
- Abstr. only. Account of experiments with bag net, made with nylon twine, carrying an outer protective screen round the fish court and with strengthened doors to protect the net and its catch from damage caused by seals.
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- Lockie, J. D. (1960)**
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Grey seals as competitors with man for salmon
- Abstr. only. Compares amount of *Salmo salar* eaten by grey seals with that taken by man on coast of North-east England.

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 Report on parasitological studies of sockeye salmon collected in 1958 with some comparisons with other years
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 Recaptures of salmon tagged by Japan in 1958, as of June 15, 1959.
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M

Anon. (1960)

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Mondo d. Natura, (57) : 534-5

Iperodonte dal rostro (Bottle-nosed whale)

Article on *Hyperoodon rostratus* with synopsis. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man

M

Anon. (1960)

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Mondo d. Natura, (57) : 539-42

Ippocampo (Sea Horse)

Article on *Hippocampus* consisting of synopsis of *H. hippocampus*, and *H. guttulatus*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.

M

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Mondo d. Natura, (57) : 542-3

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Article with synopsis on *Hippoglossus hippoglossus*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.

F

Anon. (1960)

61-01828

Mondo d. Natura, (57) : 543, (58) : 545-9

Ippopotamidi (Hippopotamuses)

Article on Hippopotamidae consisting of synopsis of *Hippopotamus amphibius* and *Choeropsis liberiensis*

Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.

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Istioforidi (Sail fishes)

Article on Istiophoridae consisting of synopsis of *Istiophorus gladius*, *Tetrapturus belone*, *T. georgii*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.

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- Article on *Lagenorhynchus* consisting of synopsis of *Lagenorhynchus acutus*, *L. albirostris*, *L. obscurus*, *L. fitzroyi*, *L. wilsoni*, *L. superciliosus*, *L. cruciger*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.
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Article on Lampredae. Morphological and anatomical characteristics, biological cycle, ecology and diffusion, classification, relation to man.

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Mondo d. Natura, (60) : 620
 Lamprididi (Lamprididae)

Article on Lamprididae consisting of synopsis of *Lampris pelagicus*. Morphological, anatomical and other characteristics, biological cycle, classification, ecology and diffusion, relation to man.

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Mondo d. Natura, (60) : 620-22
 Lampridiformi (Lampridiformes)

Article on Lampridiformes consisting of synopsis of *Trachypterus cristatus*, *Regalecus glesne*, *Lophotes cepedianus*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion.

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 CFR 22 (3) : 100.

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Fiskaren, 35 (32) : 3
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Paramaribo, 216 p.
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CFR 22 (3) : 107. Section covering fisheries incl. information on management and organization; production, import, and export of fish and fish products; research; development of the fishery and related information.

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Perlmutter, A. (1960)
N.Y. St. Conserv., 14 (3) : 12-3
The sea robin

CFR 22 (3) : 106.

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Sollecito, V. (1960)
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Sea lion hunt

CFR 22 (3) 106. Recounts trip of 'Arctic Maid' to islands of southwestern Alaska to hunt for sea lions. Voyage was financed by USFWS which supplies three biologists to study these mammals which are considered a menace to the salmon and halibut fisheries. The objectives of the hunt were to determine whether the sea lion population could be cut down and to find out if the kill would be commercially profitable.

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61-02118

Kalber, F. A., Jr. (1959)
Delaware Conserv., Summer 1959 : 4-6
Where does the shoreline begin?

CFR 22 (3) : 103.

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Doumenge, F. (1959)
Rev. Econ. mérid., 7 (27) : 243-66
L'exploitation des eaux du bassin de Thau (Exploitation of the waters of Lake Thau)

CFR 22 (3) : 103.

Pomeroy, L. R. (1960)M
61-02120*Bull. Mar. Sci. Gulf Caribb.*, 10 (1) : 1-10

Primary productivity of Boca Ciega Bay, Florida

Relative importance of *Thalassia*, *Syringodium*, phytoplankton and benthic microflora. Discusses methods used—light and dark bottle; growth rates in submerged bottles—and estimation of community production by oxygen method; distribution and density of the turtle grass; light and transparency measurements with a new photometer.

Yang, W. T. (1960)M
61-02121*Bull. Mar. Sci. Gulf Caribb.*, 10 (1) : 11-39

A study of the subgenus *Parahyperia* from the Florida current (genus *Hyperia*; Amphipoda: Hyperiida)

'Gerda' collection, 1955, 1958; nomenclature and diagnoses, ill., keys.

Hutton, R. F. & F. Sogandares-Bernal (1960)M
61-02122*Bull. Mar. Sci. Gulf Caribb.*, 10 (1) : 40-54

Studies on helminth parasites from the coast of Florida—2. Digenetic trematodes from shore birds of the west coast of Florida

New locality records for 9 spp. and new host records for 6 spp. Notes on life history phases of *Mesostephanus* and *Phagicola* spp. in *Mugil* spp., and *Parascocotyle* sp. in *Fundulus*.

Adams, J. A. (1960)M
61-02123*Bull. Mar. Sci. Gulf Caribb.*, 10 (1) : 55-82

A contribution to the biology and postlarval development of the Sargassum fish, *Histrion histrio* (Linnaeus), with a discussion of the *Sargassum* complex

Early development is described, based upon a collection of 44 larval and juvenile specimens from Florida current. Growth, biology, feeding and relationship to the Sargassum complex are discussed. Specimens at various stages of development are illustrated.

Robins, C. R. (1960)M
61-02124*Bull. Mar. Sci. Gulf Caribb.*, 10 (1) : 83-95

Studies on fishes of the family Ophidiidae—5. *Lepophidium pheromystax*, a new Atlantic species allied to *Lepophidium jeannae* Fowler

Ill. taxonomic description, distribution, ecological notes.

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 An ecological survey of the marine invertebrates of Bimini, Bahamas, with a consideration of their zoogeographical relationships
- Marine invertebrates of the shallow waters are listed, with descriptions of habitats. Numbers and vertical distribution of spp. occupying the intertidal zone and above are given, together with their plant and animal associates. The hydrographic conditions on the Great Bahama Bank are briefly discussed in relation to the distribution of the invertebrates. The fauna is compared with that of Soldier Key in the Florida Keys and the possible origins of the two faunas are discussed.
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 Notes on Bermuda hermit crabs (Crustacea; Anomura)
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Bull. Seikai reg. Fish. Res. Lab., (18) : 1-9
 (The selective action of trawl nets—3. Mesh experiments by means of alternate hauling made by 56 ton bull trawlers). Ni En
- Co 59-5379. Alternate hauls made in Oct. 1955 with cod ends of 61, 54 and 55 mm mesh. Describes and ill. gear used, log of hauls, cumulative length frequency distributions and total catches of each of 14 fish spp., with special reference to selectivity for *Hime*, *Lepidotrigla* and *Dexistes* spp.
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- Aoyama, T. & T. Kitajima** (1959) 61-02129
Bull. Seikai reg. Fish. Res. Lab., (18) : 11-24
 (The selective action of trawl nets—5. The selective action of 72 mm meshed cod-end on the 44 mm covered trawl net). Ni En
- Co 61-02128. Reports experiments in northern Yellow Sea by 'Tokomaru' in March 1958 with double manila cod-ends. Describes and ill. the gear, gives fishing log, haul by haul catches of each of 24 spp. of fish, and Crustacea and cephalopods, cumulative length frequency curves, selection curves for spp. of *Sillago*, *Cleisthenes*, *Lepidotrigla*, *Enchelyopus* and *Tanakius*. Information about the variation of selection with size of catch.

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61-02130
- Aoyama, T. & T. Kitajima** (1959)
Bull. Seikai reg. Fish. Res. Lab., (18) : 25-49
 (The selective action of trawl nets—6. The selective action of 55 mm meshed cod-end currently used by the 75 ton common bull trawlers). *Ni En*
 Co 61-02129. Alternate hauls with covered and uncovered cod-ends in November 1958 by 75 ton chartered commercial vessels, fishing log, catches and cumulative length frequency distributions for 29 fish spp. and selection curves for 16 of them. Variation of selectivity with size of catch. Differences in efficiency of nets. Data were entered on edge-notched cards, one of which is ill. Discusses changes in spread of selection curves with differences in size composition of available stock.
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61-02131
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 (The selective action of trawl nets—7. The selective action of 60 mm meshed cod-end on the 44 mm covered trawl net). *Ni En*
 Co 61-02130. Reports covered cod-end experiments in February 1959 by 'Toku-Maru'. Considers change in efficiency; gives catches and selectivity for 39 spp. of fish and other animals. Variation of selectivity with size of catch. Discusses the correlation of statistics for landings by market size categories on basis of selectivity experiments.
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 Observations on development of eggs taken in a mass in trawls in Yellow Sea, Feb.-Mar. 1957.
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Trans. Amer. Fish. Soc., 88 (4) : 241-52
 Variation in the life history of the American smelt in inland waters of Maine
 Presents evidence that phases of spawning behaviour in *Osmerus mordax* are subject to a law of heterogeneous stimulus summation. Reasons for different habitat types occupied, maximum sizes attained, and differences in behaviour with respect to angling are briefly discussed. It is suggested that this might be result of speciation in progress. If so, the genetic constitution of the various smelt populations might have implications in management.
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 Feeding habits of the dolly varden, *Salvelinus malma* (Walbaum), at Chignik, Alaska
 Stomach contents examined in 1955 and 1956 summers to determine extent of predation on young *Oncorhynchus nerka*. Relation of trout size to food size; diurnal feeding variations.

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Observation of worm stream in Illinois before, during and after the 1953-54 drought.

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- Stoeckeler, J. H. & G. J. Voskuil** (1959) 61-02136
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Late afternoon summer water temperatures at the mouth of a spring channel were reduced by shortening the channel and routing the water through a willow-shaded location.

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Trans. Amer. Fish. Soc., 88 (4) : 289-93
 Infectious nature of pancreatic necrosis

Observations of eyed *Salvelinus fontinalis* eggs—spontaneous necrosis; effect of exposure to infection; effect of type of food on acuteness of disease; mortality; sanitary measures to restrict spread.

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 Studies of the life history of the blue crab (*Callinectes sapidus* Rathbun) in Louisiana waters

Plankton, other trawl and seine samples; mating times and places; migration of young, 1st year growth and recruitment; food habits, parasites and periodicity.

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Tissue samples that contained slime-secreting cells were taken from the gills and epidermis of larval lampreys that had been poisoned by several compounds. Slime-secreting cells, at tips of gill filaments, lining gill chamber, and scattered throughout epidermis reacted differently to same toxicant. Secretory cells of gills were most sensitive to chemical attack.

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Trans. Amer. Fish. Soc., 88 (4) : 319-29

Field tests of Petersen, Streamer, and Spaghetti tags on striped bass, *Roccus saxatilis* (Walbaum)

Experiments were conducted in north-eastern North Carolina during 1955 and 1956 to select a tag suitable for use in brackish waters for studying population dynamics and movements. Observations were made on recovery of tags as related to size of fish, length of time tagged, selectivity of tagged fish by commercial gear, and durability of tags. The Streamer tag was selected as the best suited for future use.

Tharratt, R. C. (1959)

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61-02142

Trans. Amer. Fish. Soc., 88 (4) : 330-1

Food of yellow perch, *Perca flavescens* (Mitchill) in Saginaw Bay, Lake Huron

Summary of stomach contents analyses.

Grice, F. (1959)

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Trans. Amer. Fish. Soc., 88 (4) : 332-5

Elasticity of growth of yellow perch, chain pickerel, and largemouth bass in some reclaimed Massachusetts waters

Growth of *Perca flavescens*, *Esox niger*, and *Micropterus salmoides* faster after reclamation by rotenone than in natural conditions. Growth in thinned population and of restocked fish; improvement attributed to reduced competition for food. Comparisons with growth in other waters.

McCann, J. A. (1959)

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61-02144

Trans. Amer. Fish. Soc., 336-43

Life history studies of the spottail shiner of Clear Lake, Iowa, with particular reference to some sampling problems

Growth of *Notropis hudsonius hudsonius*, 1956-58, seine samples; variation with temperature; abundance in relation to vegetation density; diet; inflection by *Neascus nolfi*.

Minckley, W. L. & J. E. Deacon (1959)

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Trans. Amer. Fish. Soc., 88 (4) : 344-55

Biology of the flathead catfish in Kansas

Electro-caught samples in Big Blue River; relation of size to habitat, diet, growth, length-weight relation, size at maturity; spawning dates, fecundity, parasitism by *Marsipometra* and nematodes.

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A simple method for increasing contrast in scale reading

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- Wise, J. P. & A. C. Jensen (1959)** M
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Movement of tagged halibut off New England

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Die Bedeutung der Strömung als ökologischer Faktor (The current as ecological factor). En
- A review and discussion: physical properties of currents, their biological significance, and effect on distribution of aquatic spp., rheotactic behaviour of some lotic invertebrates—observations of *Ephemera*, *Baetis*, *Ecdyonurus*, *Hydropsyche* and others in flowing water aquarium; respiration measurements of larvae of stream insects.
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 Norris, 16 p.
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 Jadranu kod Rovinja (Appearance and mode of life of the ophiuroid *Ophiothrix quinque maculata* in the northern Adriatic near Rovigno)

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 Physical oceanographic, biological, and chemical data South Atlantic coast
 of the United States M/V 'Theodore N. Gill', cruise 8

Tabulated and graphical oceanographic data, incl. plankton and experimental fishing.

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 Photographs of the bottom fauna in the Ross Sea

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 (1) Corgonacea, Polyzoa and Porifera; (2) Lamellibranchiata sp. and Asteroi-
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 New Zealand

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 Corrosion of metals in Whangaeahu River and Ruapehu Crater waters

Rates corrosion resistance of alloys tested.

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 On the coastal generation of internal tides

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Mentions organic solvents for isolation of chloroplast in non-aqueous media and reports loss of lipid components of *Elodea canadensis* during isolation.

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 Fishes of the family Gobiidae in South Africa

Lists, ill. and describes briefly, with distribution notes on spp. of 26 genera.

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Fish. Bull., U.S., 58 (130) : 83-169
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General decline in abundance can be ascribed to lower survival rate from spawner to returning adults in recent years. There is evidence that this lowered survival rate results partially from seasonal distribution of escapement and partially from heightened mortality of the young during fresh-water residence. Portion of general decline is tentatively ascribed to heightened predation in recent years since destruction of former cyclic character of runs has lessened natural control of predators through a reduced amplitude of the oscillations in number of spawners.

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61-158me to 61-200me

- IAEA/FAO/WHO.** 21/11/61 G
61-158me
Mexico City, Mex. 11 days
Conference on the use of radioisotopes in the animal biology and the medical sciences

Amendment to 61-057me.

- ECAFE.** 18/9/61 F
61-159me
Tokyo, Japan. 6 days
Symposium on dams and reservoirs

- International Ship Structural Congress.** 19/9/61 M
61-160me
Glasgow, Scotland. 3 days
1st Meeting

- Challenger Society.** 29/11/61 M
61-161me
London, U.K. $\frac{1}{2}$ day
212th Scientific meeting

Paper read: " Research on marine resources in Chile, Ecuador and Peru " by Dr. R. Clarke.

- IMCO.** 28/5/62 MG
61-162me
London, U.K. 5 days
1st Meeting of sub-committee of maritime safety committee on subdivision and stability

- Stazione Zoologica di Napoli.** 17/7/61 M
61-163me
Naples, Italy.
Colloquio internazionale sui problemi ecologici delle zone litorali del Mediterraneo [International colloquium on ecological problems of the littoral zones of the Mediterranean]

- Gulf States Marine Fisheries Commission.** 15/3/62 M
61-164me
Galveston, Tex., U.S.A. 2 days
Meeting

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International Rayon and Synthetic Fibres Committee. 1/5/62 MF
 London, U.K. 4 days 61-165me
 2nd World congress on man-made fibres

Will incl. paper by Dr. Von Brandt on importance of such fibres for fishing.

Royal Society of London. 1962 M
 U.K. 61-166me
 Grants under the Browne research fund

The council of the Royal Society is prepared to consider applications for personal grants to enable individuals to carry out research in marine biology.

European Federation of Chemical Engineering. 2/5/62 M
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 Symposium on de-salting sea-water

ICES. 1/10/62 M
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 50th Statutory meeting

IWC. 2/7/62 M
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 14th Annual meeting

ICNAF. 24/5/62 M
 Moscow, USSR. 3 days 61-170me
 Meeting of the working group on assessment

IATTC. 24/5/62 M
 San Diego, Calif. 1 day 61-171me
 Annual meeting

IFIPS. 27/8/62 G
 Munich, Germany. 6 days 61-172me
 1st Congress

INPFC, Committee on Biology and Research. 15/7/61 M
 Nanaimo, B.C., Canada. 1 month 61-173me
 Working party on oceanography

The purpose was to co-ordinate Canada, Japan and U.S. contributions and prepare the final report on oceanography of the area of interest to the commission.

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WMO. 26/3/62 Washington, D.C. 26 days 3rd Session of the commission for synoptic meteorology	G 61-174me
NPFSC. 7/2/62 Ottawa, Canada. 4 days 5th Annual meeting	M 61-175me
Water Pollution Control Federation. 9/10/61 Milwaukee, Wis., U.S.A. 4 days 34th Annual meeting	MF 61-176me
UN. 18/6/61 Feldbach, Zurich, Switzerland. 3 days Symposium on nutrition science in the service of developing countries	G 61-177me
IMCO. 21/11/61 London, U.K. Expert working group on pollution of the sea by oil	M 61-178me
OEEC/EPA. Feb./62 Paris, France. Meeting of experts on the consumption of fish	MF 61-179me
CIBA Foundation. 18/3/62 Cairo, Egypt. 5 days Symposium on bilharziasis	F 61-180me
International Association of Microbiological Societies. 19/8/62 Montreal, Canada. 7 days 8th International congress of microbiology	G 61-181me
CCTA. 4/9/62 Bukavu. 10 days 4th Inter-African conference for food and nutrition	MF 61-182me
CCTA/IUCN. 5/9/62 Arusha, Tanganyika. 8 days Symposium on the conservation of nature and natural resources in modern African states.	MF 61-183me
IPFC. Oct./62 Seoul, Korea. 10th Session	MF 61-184me

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- GLFC.** 29/11/61 F
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- FAO/WHO.** 1/12/61 61-187me
Hyderabad, India. 8 days
5th Joint nutrition conference for the Far East
- Association of British Zoologists.** 6/1/62, MG
London, U.K. 1 day 61-188me
27th Annual meeting
- Incl. a paper on fisheries by Dr. H. O. Bull, Dove Marine Laboratory
- NPFSC.** 29/1/62 M
Ottawa, Canada. 9 days 61-189me
Meeting of the standing scientific committee
- IPHC.** 13/2/62 M
Seattle, Wash., U.S.A. 4 days 61-190me
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- Fisheries Council of Canada.** 25/4/62 MF
Quebec, Canada. 3 days 61-191me
Annual convention
- ICNAF.** 26/4/62 M
Boston, Mass., U.S.A. 1 day 61-192me
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- Oyster Growers and Dealers/National Shellfisheries.** 29/7/62 M
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- University of British Columbia, Department of University Extension.** 8/1/62 M
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- International Agricultural Center.** Sept./61 F
Wageningen, Netherlands 61-195me
Meeting on control of aquatic weeds

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IUCN. 15/5/62

Morges, Switzerland. 3 days

Meeting of the executive board

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61-196me

Jointly with the meeting of trustees of World Wildlife Fund.

NAS/NRC(US). 9/10/61

Wellington, N.Z. 6 days

5th Meeting of the special committee on Antarctic research

MG
61-197me

UNESCO. 10/10/61

Istanbul, Turkey. 5 days

Meeting of consultants for the cell biology programme

G
61-198me

American Society for Cell Biology. 2/11/61

Chicago, Ill., U.S.A. 3 days

1st Meeting

G
61-199me

UNESCO. Dec./61

Buenos Aires, Argentina

Meeting of experts on a regional project relative to the natural resources of the Andes region

FG
61-200me

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 The chromosome numbers of certain barnacles in British waters
 The chromosome numbers of 9 spp. of sessile barnacles have been determined from squashes of young embryos stained by an iron alum aceto-carminine method. All the spp. of *Balanus* examined, and *Elminius modestus* had a diploid count of 32 chromosomes. *Chthamalus stellatus* and *Verruca stroemia* had each 30 chromosomes. Issued also as: *Contr. Mar. Biol. Univ. Wales*, 1958-1959 (3).
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Beaufortia, 7 (82) : 37-9
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 Distribution map for this cirripede; results of Aug.-Sep. 1957 survey; dispersal by shipping. Issued also as: *Contr. mar. Biol. Univ. Wales*, 1958-1959 (10).

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Ann. Mag. nat. Hist., Ser. 13 vol. i : 317-20
 Notes on marine Polyzoa—1. *Nolella pusilla* (Hincks)
- Ill. description of colony of this small ctenostome from waters round Wales. Taxonomy; settlement on submerged panels. Issued also as: *Contr. mar. Biol. Univ. Wales*, 1958-1959 (17).
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Bull. Inst. océanogr. Monaco, (1165) : 79 p.
- Quelques observations sur la biologie d'un poisson abyssal *Trachyrinchus trachyrinchus* Risso et sur les conditions de vie en mer profonde (Some observations on the biology of an abyssal fish *Trachyrinchus trachyrinchus* Risso and on the living conditions in the ocean deeps). En
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- June, F. C. & J. W. Reintjes (1960)**
Spec. sci. Rep. U.S. Fish Wildl. Serv., (336) : 38 p.
- Age and size composition of the Menhaden catch along the Atlantic coast of the United States, 1956, with a brief review of the commercial fishery
- Distribution of fishing effort for *Brevoortia*; sampling; apparent abundance.
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Biochem. J., 74 (1) : 160-72
- The synthesis of methionine by suspensions of *Escherichia coli*
- Describes work to obtain simple system for the synthesis of methionine in which all the reactants could be clearly defined.
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- Ralph, P. M. (1960)**
Proc. roy. Soc., 152B (947) : 263-81
Tetraplatia, a coronate scyphomedusan
- Detailed anatomy and systematic status of *T. volitans*. Suggests that the genus be placed in a family of its own, Tetraplatidae (new family).

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Day, C. G. (1959)
Spec. sci. Rep. U.S. Fish Wildl. Serv., (318) : 119 p.
 Oceanographic observations, 1958, east coast of the United States

Daily water temperature and salinity observations for 1958 from seventeen locations along the Atlantic seaboard are tabulated, plotted and discussed for the third consecutive year. Issued also as: *Contr. Woods Hole oceanogr. Instn*, (1048).

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Si, T., T. Chung-Yen & L. Kié-Min (1960)
Acta zool. sinica, 12 (1) : 63-87
 (Study of the Pholades of China and description of new spp.). Ch Fr

Ill. description of spp. of Pholadidae, incl. new spp. of *Pholas*, *Barnea*, *Pholodidea*, *Martesia*, *Parapholas* and *Jouannetia*.

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61-02609

Wei-Nan, H. (1960)
Acta zool. Sinica, 12 (1) : 101-13
 (Notes on some parasitic nematodes obtained from vertebrates in Nanking). Ch En

Ill. notes on spp. of *Rhabdias* and *Tanqua* from water snake *Elaphe*. Key to 5 spp. of *Tanqua* incl. sp. from *Acipenser*.

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An-chi, W. & W. Chen-yin (1960)
Acta zool. Sinica, 12 (1) : 127-30
 (The effect of embryonic development of goldfish from exposing the parent fish to X-rays). Ch En

Decreased rate of fertilization and hatching, deformation of embryos—damage to brain, irregular differentiation, effect on eye pigment, deformation of spine.

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Longuet-Higgins, M. S. (1958)
Proc. Camb. phil. Soc., 54 (4) : 454-62
 Numerical evaluation of the integral

$$\frac{1}{2\pi} \int_{-i\infty}^{+i\infty} (\lambda a^3 + a^2 - 1)^{-1/2} \exp(-a\omega) da$$

Derivation and tables for function occurring in theory of random Gaussian surface, applied to study of sea waves by surface reflection. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (250).

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Russell, R. C. H. & J. D. C. Osorio (1958?)
Proc. Conf. cstal Engng, 6 (10) : 171-93
 An experimental investigation of drift profiles in a closed channel

Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (251).

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Cartwright, D. E. (1958)

J. Math. Phys., 37 (3) : 229-45

The prediction of a random function, given simultaneous values of its first few derivatives

Theory of method used to study sea wave by reflection from a random Gaussian surface. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (252).

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Deacon, G. E. R. (1959)

Coll. Repr. nat. Inst. Oceanogr., 7 (253) : 9 p.

Recent approaches to problems in marine research

Essay concerning ocean wave studies, microseismic observations, storm surges, tidal streams, deep-water circulation.

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Longuet-Higgins, M. S. (1958)

Proc. Camb. phil. Soc., 54 (4) : 439-53

The statistical distribution of the curvature of a random Gaussian surface

Theory for analysis of sea waves by study of reflection from surface. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (254).

MG

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Longuet-Higgins, M. S. (1959)

Proc. Camb. phil. Soc., 55 (1) : 91-100

The distribution of the sizes of images reflected in a random surface

Contribution to method of analysing sea waves. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (259).

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Darbyshire, M. (1958)

Dock Harb. Author., 39 (458) : 245-8

Waves in the Irish Sea

Summary and review of data especially for distribution of wave heights and periods, effects of varying wind direction and atmospheric stability. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (262).

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Stride, A. H. (1959)

Geol. Mag., 96 (1) : 33-44

On the origin of the Dogger Bank in the North Sea

Reversed seismic refraction station and some cores are described. Absence of compared sediments and finding of only glacial or post-glacial sediments at surface suggest that the bank is a large moraine. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (263).

M

Herdman, H. F. P. (1959)

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Engineering, Lond., 188 : 414-6

Design for an ocean going research ship

General essay; special consideration of scope of requirement, optimum size; range, endurance and speed; population and manoeuvrability; workshops and stores; deck arrangements; navigation equipment. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (280).

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Stride, A. H. (1959)

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Dock. Harb. Author., 40 (467) : 145-7

A pattern of sediment transport for sea floors around southern Britain

Descriptions and charts. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (281).

G

James, A. T. (1960)

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Ann. math. Statist., 31 (1) : 151-8

The distribution of the latent roots of the covariance matrix

Uses representation theory of linear group to obtain general distribution for arbitrary Σ .

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Kusnezow, S. I. (1959)

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Berlin, Dtsch. Verlag der Wissenschaften, 301 p.

Die Rolle der Mikroorganismen im Stoffkreislauf der Seen (The role of microorganisms in the biochemical circulation of elements in lakes)

Short general review of limnology, detailed review of the occurrence of bacteria in the water and in the deposits, factors affecting their abundance and activity and biochemical circulation of nitrogen, sulphur and other elements in the lakes.

M

Saudray, Y. & A. Lemercier (1960)

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Bull. Inst. océanogr. Monaco, (1162) : 11 p.

Observations sur le développement des oeufs de *Ligia oceanica* Fabr. crustacé isopode oniscoïde (Observations on the development of eggs of *Ligia oceanica* Fabr., Oniscoid crustacean isopod). En

Describes the life in the incubatory chamber of the young of the sp.

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Arvanitaki, A. & N. Chalazonitis (1960)

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Bull. Inst. océanogr. Monaco, (1164) : 83 p.

Photopotentiels d'excitation et d'inhibition de différents somata identifiables (*Aplysia*)—Activations monochromatiques (Photopotentials of excitation and inhibition of different identifiable somata—*Aplysia*—Monochromatic activations). En

A study of neuronal activation by light on selected giant nerve cells of *Aplysia*, functionally differentiated, identifiable *in vivo* by their morphology and topography on the ganglion.

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- van Benthem, J. W. S. S.** (1959)
Treubia, 25 (1) : 25-87
Non-marine mollusca of the north Moluccan Islands Halmahera, Ternate, Batjan and Obi
A catalogue of spp. incl. synonyms and local distribution.
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Treubia, 25 (1) : 89-111
The breeding habits and development of *Rana chalconota* (Schleg.) (Amphibia)
A study of development and biology of the sp.
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- Church, G.** (1959)
Treubia, 25 (1) : 113-26
Size variation in *Bufo melanostictus* from Java and Bali (Amphibia)
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- Serene, R.** (1959)
Treubia, 25 (1) : 127-57
Note sur les espèces de *Trapezia* du groupe *digitalis* et sur leurs relations avec les espèces de *Tetralia* (Note on the species of *Trapezia* of the group *digitalis* and their relations with the species of *Tetralia*)
A taxonomic study.
- 61-02631
- Kuthalingham, M. D. K.** (1959)
Treubia, 25 (1) : 159-63
The life history and feeding habits of a tripod fish (*Triacanthus brevirostris* Temm. and Schleg.) of the Indian Sea
Describes egg, larval and juvenile stages and feeding of these and adults.

MF

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van Someren, V. D. (1960)*E. Afr. agric. J.*, 25 (4) : 245-50The artificial culture of the edible East African oyster, *Crassostrea cucullata* (Born)

Culture experiments at creeks in Kenya; counts on tiles, spat collection; correlation of settlement with yearly rainfall; growth rates; recommendations for further work.

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Whitehead, P. J. P. (1960)*E. Afr. agric. J.*, 25 (4) : 259-65

The river fisheries of Kenya—Part 2. The lower Athi (Sabaki) River

Co 59-7656.

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Fryer, G. (1960)*E. Afr. agric. J.*, 25 (4) : 267-70

Concerning the proposed introduction of Nile perch into Lake Victoria

Argues that proposal to re-introduce *Lates niloticus* is based on ignorance of biological concepts, and that it would jeopardize the existing fishery. Reference to *Tilapia* and *Haplochromis* in the ecosystem, and also *Bagrus* and *Clarias*. Reviews other disastrous introductions elsewhere.

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Wheeler, J. F. G. (1960)*E. Afr. agric. J.*, 25 (4) : 271-3Sharks of the western Indian Ocean—3. *Carcharinus menisorrh* (Muller and Henle)

Describes and ill. the sp., morphometry.

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Bourcart, J. (1960)*Bull. Inst. océanogr. Monaco*, (1163) : 20 p.

Carte topographique du fond de la Méditerranée occidentale (Topographical chart of the bottom of the western Mediterranean). En

Description of characteristics and formations of the bottom.

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Kerr, T. (1960)*Proc. zool. Soc. Lond.*, 133 (3) : 401-22

Development and structure of some actinopterygian and urodele teeth

Describes and discusses tooth structure in spp. of *Esox*, *Salmo*, *Anguilla*, *Conger*, *Gadus*, *Merluccius*, *Melanogrammus*, *Labrus*, *Zoarcas*, *Trigla*, *Pleuronectes*, *Lepisosteus*, *Amia*, *Ctenolabrus*, *Lophius*, *Anarhichas*, *Polypterus*, *Calamoichthys*.

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Proc. zool. Soc. Lond., 133 (3) : 423-33
 Three species of Kamptozoa new to Britain
- Describes, ill., compares, and discusses reproduction of spp. of *Loxosomella* and *Loxosoma* (Entoprocta, Loxosomatidae), from western approaches to English Channel.
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- Atkins, D.** (1960)
Proc. zool. Soc. Lond., 133 (3) : 435-51
 The development of the pleopods in the young crab stages of *Pinnotheres* (Crustacea)
- Describes and ill. development of male and female *P. pinnotheres* and *P. pisum* at Plymouth, and the rearing of immature crabs in *Mytilus*.
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- Young, J. Z.** (1960)
Proc. zool. Soc. Lond., 133 (3) : 471-9
 Observations on *Argonauta* and especially its method of feeding
- Aquarium observations at Naples of female *A. argo*: behaviour, respiration, swimming, feeding on fish, function of shell and webb; comparison with other related planktonic octopods—*Tremoctopus* and *Ocythoe*.
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- Saundby, R. P.** (1960)
Proc. zool. Soc. Lond., 133 (3) : 487-90
 Observations on the grey seal at St. Kilda in winter
- Breeding season and sites, and calf mortality of *Halichoerus grypus*.
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- Venables, U. M. & L. S. V. Venables** (1960)
Proc. zool. Soc. Lond., 133 (3) : 490-4
 A seal survey and pupping season in Irish Sea, of *Halichoerus grypus* and *Phoca vitulina* in 1955-57
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- Job, T. J.** (1960)
Mimeo, 47 P.
 The status of the fisheries industries in the Near East
- The status of the fisheries industries in the Near East and their potential contribution in improving the nutritional level and the standard of living in the region.
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- Hutson, V. M.** (1960)
Malay. Nat. J., 14 (2) : 122-5
 Descriptions of crocodiles and alligators
- Contains a rough key to the identification of *Gavialis gangeticus*, *Tomistoma schlegeli*, *Crocodylus* and *Alligator*; notes on their life history and habits as well as *Crocodylus niloticus* and *C. porosus*.

Hutson, V. M. (1960)
Malay. Nat. J., 14 (2) : 126-7
 Hunting crocodiles

F
 61-02645

Description of hunting techniques by bait or spear.

Lambou, V. W. (1959)
Mimeo, 8 p.

MF
 61-02646

A contribution toward a bibliography on use of machine methods in processing fishery data

120 references in alphabetic order, to papers describing methods rather than dealing with fisheries problems.

Dunbar, M. J. (1960)
Amer. Nat., 94 (875) : 129-36

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The evolution of stability in marine environments—Natural selection at the level of the ecosystem

Starting from the premise that oscillations are dangerous for any system and that violent oscillations may be lethal, the paper contrasts the highly stable production systems of tropical waters with the seasonal and longerterm oscillations of temperate and polar waters.

Svetenskii, L. N. (1960)
Dokl. Akad. Nauk S.S.S.R., 131 (2) : 273-4

MF
 61-02648

Ob odnoi gidrodinamicheskoi zadache, svyazannoi s problemoi tsunami (A hydrodynamic problem connected with tsunami)

Shuliak, B. A. (1960)
Dokl. Akad. Nauk S.S.S.R., 131 (2) : 275-8

MF
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O parametrakh struktur deformiruemogo dna volnovogo potoka (Structure constants of the bottom that is being deformed by an undulatory flow)

Vikhrenko, N. M. (1960)
Dokl. Akad. Nauk S.S.S.R., 131 (2) : 412-5

M
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Izuchenie organicheskogo veshchestva osadkov Atlanticheskogo okeana luminescentnym metodom (A study of the organic substance of the deposits of the Atlantic, carried out by the luminescence method)

Isaeva, A. B. (1960)
Dokl. Akad. Nauk S.S.S.R., 131 (2) : 416-9

M
 61-02651

Vol'fram v donnykh otlozheniiakh Okhotskogo moria (Tungsten in bottom deposits of the Okhotsk Sea)

Lukin, E. I. & V. M. Epshtein (1960)
Dokl. Akad. Nauk S.S.S.R., 131 (2) : 457-60

F
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Edemichnye baikal'skie piiavki iz sem. Glossiphonidae (Endemic baikalian leeches of the Glossiphonidae family)

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Arch. Oceanogr. Limnol., Venezia, 11 (3) : 305-56
- Il polimorfismo adattativo e i fattori della selezione nel copepode *Tisbe reticulata* Bocquet (Adaptive polymorphism and the factors of selection in the copepod *Tisbe reticulata* Bocquet). En
- Reports the final results of a research on the polymorphism of *T. reticulata* living in the lagoon of Venice. First part deals with the description of environment and with some fundamental problems about faunal adaptation to life in brackish waters. The problem of genetic polymorphism with special reference to its adaptive and evolutionary implications is also dealt with. Second part contains the genetic analysis of polymorphism in *Tisbe*.
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- Malle, B.** (1960)
Arch. Oceanogr. Limnol., Venezia, 11 (3) : 357-70
- Guida pratica per l'esecuzione dell'analisi armonica secondo il metodo Doodson (Practical guide for the procedure of the harmonic analysis of tides according to the Doodson method). En
- The guide is directed to simplify the execution of harmonic analysis of tides. Special attention is given to control data. Sample tables are incl. and practical advice is suggested for individual and team work. The guide may be utilized by people who do not have a specific experience in this field. Issued also as: *Pubbl. Ist. talassogr., Trieste*, (363).
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- Picotti, M.** (1960)
Arch. Oceanogr. Limnol., Venezia, 11 (3) : 371-420
- Crociera talassografica Adriatica 1955-3. Tabelle delle osservazioni fisiche, chimiche, biologiche e psammografiche (Adriatic talassographic cruise 1955-3. Tables of the physical, chemical, biological and psammographical observations). En
- The various observations made in the course of the oceanographic expedition of Aug.-Sep. 1955 in the Adriatic, are presented in a series of tables which indicate the conditions of air and sea, depth of each measurement level, temperature, salinity, density *in situ*, oxygenation, pH, nutrient salts, corings, optical and turbidity measurements, as well as biological observations. Tables are preceded by a short account, describing methods and unity of measurements used for each determination. Issued also as: *Pubbl. Ist. talassogr., Trieste*, (361).
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- Crociera talassografica Adriatica 1955-4. La distribuzione del rame nelle acque dell'Adriatico (Adriatic thalassographic cruise 1955-4. Copper distribution in Adriatic Sea's waters). En
- Issued also as : *Pubbl. Ist. talassogr., Trieste*, (362). CR 60-1149. Presents results of the analysis of copper in 30 samples collected in the summer of 1955, at various depths, along the median line of the Adriatic Sea.

- Autret, M., J. Fridthjof & R. Kreuzer** (1960) M
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Rome, FAO, mimeo,

Étude de la préparation de la campagne nationale en faveur de la consommation du poisson et des dérivés du poisson au Maroc (Study on the preparation of the national campaign in favour of the consumption of fish and its by-products in Morocco)

Contains 60-8767, 61-02658 and 61-02659.

- Kreuzer, R.** (1960) M
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In 61-02657 : 33 p.

Rapport sur une étude des approvisionnements en poisson frais, farine alimentaire de poisson et dérivés du poisson, et leur utilisation dans une campagne nationale au Maroc (Report on a study of the storage of fresh fish, fish meal and other by-products of fish and their utilization in a national campaign in Morocco)

- Fridthjof, J.** (1960) M
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New Statesman, 60 (1553) : 960-2
Restocking the seas

Article concerns Soviet transplantation of *Oncorhynchus gorbusha* in NE Atlantic, kingcrab from Pacific to European waters, and various transplantations with Caspian sea.

- Woods Hole. Biological Laboratory** (1960) M
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Washington, D.C., 52 p.

Annual report of the Biological Laboratory Woods Hole, Mass., for the year ending June 30, 1959

Presents report of the director, with notes on staff and vessels and shore facilities. Gives reports of investigations on cod, flounder, haddock, hake, industrial fishery, redfish, sea scallops, bottom ecology, plankton ecology, fish behaviour and population dynamics. Lists papers published.

- Lambou, V. W.** (1959) F
61-02662
Mimeo, 34 p.

Simplified creel census program for punch card tabulation

Describes system of data collection and analysis in Louisiana; gives examples of forms, worksheets, punch cards and machines.

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New Phytol., 59 (1) : 109-15
 Amino acid contents of some marine algae from Bombay
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Polydora as an agent in the destruction of submerged timber
 Reports first observations of destructive activity of this annelid in Norway.
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 Studies of fish-eggs and larvae of Madras coast
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 The food and feeding habits of *Selaroides leptolepis* (Cuvier and Valenciennes)
 Ci 61-02665. Analysis by points and occurrence method of stomachs of 1830 specimens of this carangid from Gulf of Mannar and Palk Bay, compared with Madras and Trivandrum, showed it is essentially carnivorous like other Indian carangids.
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Louisiana Conserv., 12(2-3) : 8-9, 20
 Frogs and toads of Louisiana
 A popular article on the 25 spp. recorded from Louisiana.
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 The sun worshiper
 A popular article on the American alligator.
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- Barnett, P.** (1959)
S. Afr. Shipp. News Fish. Ind. Rev., 14 (8) : 65-7
 My East Africa coast "sea safari" with Professor J. L. B. Smith
 Brief popular account of an expedition to the East African seaboard.
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- Foyle Fisheries Commission** (1960)
 Dublin, 27 p.
 Eighth annual report
 Report for the year ending 30 Sep. 1959 on administration and finance, conservancy—fishing intensity, engineering works, research on *Salmo salar*, enforcement of regulation, stocking, water purity survey—and management, incl. catch and effort statistics. Appendices give trading accounts, regulations made during the year.

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Contr. Inst. oceanogr. S. Paulo (Oceanogr. biol.), (3) : 6 p.
 Sobre duas arenicolas da costa brasileira (Annelida, Polychaeta) (On two lugworms of the Brazilian coast—Annelida, Polychaeta). En
 Description of *Arenicola cristata* var. *brasiliensis* and *A. glasselli*.
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J. malacol. Soc. Aust., (4) : 32-8
 A note on *Pettancylus australicus* (Tate)
 Ill. description of topographic morphology.
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Bull. Hokkaido reg. Fish. Res. Lab., (22) : 1-48
 (Increase in size at molting in Crustacea). Ni En
 Analysis of 27 spp. of size increment at moulting, and presentation of a method of estimating length at successive stages in crustaceans and in one sp. of arachnid.
- M
61-02674
- Kurata, H.** (1960)
Bull. Hokkaido reg. Fish. Res. Lab., (22) : 49-56
 (Last stage zoea of *Paralithodes* with intermediate form between normal last stage zoea and glaucothoe). Ni En
 Description of an intermediate stage occurring in a small proportion of last stage zoeae of *Paralithodes camtschatica* and *P. brevipes*.
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- Vorren, O.** (Ed.) (1960)
 Oslo Univ. Press, 271 p.
 Norway North of 65
 Contains 61-02676 to 61-02681.
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In 61-02675 : 37-49
 The climate
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- Christiansen, B.** (1960)
In 61-02675 : 73-99
 Fauna north of the Arctic Circle
 Refers to freshwater fishes and invertebrates, and the marine fauna and environment.

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In 61-02675 : 147-56 61-02678
The economic structure
Incl. fishing industry and populations.
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 BA 35E (19) 54392. Occurs on gills of *Panulirus interruptus* (Randall) and has been found on lobsters from southern California in the vicinity of San Clemente Island and from the Gulf of California in the vicinity of Mazatlán.

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- M
61-02793
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J. exp. Biol., 35 : 156-91
 On the function and evolution of electric organs in fish

LZ 4 (6) : 1246. Reports on discharge voltage of 7 spp. and ill. a new theory on the development of the electric organs.

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 Über das Vorkommen der Gattung *Bythotrephes* Leydig (Crustacea, Cladocera) im norddeutschen Gebiet zwischen Elbe und Oder (On the occurrence of the genus *Bythotrephes* Leydig, Crustacea, Cladocera, in the region between Elbe and Oder in northern Germany)

LZ 4 (6) : 1253. Reports on habitat.

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J. exp. Biol., 35 : 243-9
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LZ 4 (6) : 1254. The gut of *A. salina* regulates the balance of salt and water.

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61-02797
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LZ 4 (6) : 1272. Reports on *Paralithodes camtschatica*.

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61-02798

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LZ 4 (6) : 1275. Reports on *Diphyllbothrium latum*.F
61-02799

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61-02800

New South Wales. Laws, Statutes, etc. (1960)

9 Eliz. II, (4) : 2 p.

Fisheries and oyster farms (amendment) act, 1960 : an act to make further provisions with respect to the taking of fish in inland waters; for this purpose to amend the fisheries and oyster farms act, 1935-1957; and for purpose connected therewith.—24 March 1960

The amendments affect section 4—interpretation—, section 25B—persons fishing in inland waters to be licensed—and section 120—regulations.

MF
61-02801

New South Wales. Laws, Statutes, etc. (1960)

Govt Gaz., N.S.W., (86) : 2245

Proclamation made under the fisheries and oyster farms act, 1935-1960, relative to a portion of the waters of Wonboyn River, County of Auckland (9966).—6 July 1960

Rescinds proclamation of 7 Jan. 1959, published in *G.G.* No. 10 of 23 Jan. 1959, and prohibits the taking of fish by means of every description other than: (1) prescribed dip or scoop net for the capture of prawns only; (2) prawn nets not exceeding 20 feet in length; (3) salmon net for the capture of Australian salmon, *Arripis trutta*, subject to the condition that all fish other than Australian salmon taken in the nets be returned immediately to the water, during the period 22 Jul. 1960 to 21 Jul. 1963.F
61-02802

New South Wales. Laws, Statutes, etc. (1960)

Govt Gaz., N.S.W., (86) : 2245

Proclamation made under the fish and oyster farms act, 1935-1960, relative to a portion of waters of Macleay River, Counties of Clarke, Dudley, Sandon and Vernon. (9967).—6 July 1960

Prohibits the taking of fish by means of nets of every description from 20 Oct. 1960 to 19 Oct. 1965 in the said waters.

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- New South Wales. Laws, Statutes, etc. (1960)**
Govt Gaz., N.S.W., (86) : 2246
 Proclamation made under the fisheries and oyster farms act, 1935-1960. (9968).—6 July 1960

Prohibits the taking of fish by means of meshing nets other than by the methods known as "bull-ringing", i.e. running a net attached to the bow of a boat in a circle back to the bow of such boat and then drawing in the net, and "meshing" or "splashing", i.e. shooting the net, splashing the water in the vicinity and then taking up and removing the net forthwith, during the period 9 Dec. 1959 to 8 Dec. 1964, in the waters specified in the schedule, County of Camden.

- MF
61-02804
- New South Wales. Laws, Statutes, etc. (1960)**
Govt Gaz., N.S.W., (90) : 2415-6
 Amendment of regulations under the fisheries and oyster farms act, 1935-1960.—5 August 1960. (281)

A person in receipt of an invalid or age pension may obtain an inland angling licence at a reduced fee.

- F
61-02805
- New South Wales. Laws, Statutes, etc. (1960)**
Govt Gaz., N.S.W., (98) : 2639
 Proclamation under the fisheries and oyster farms act, 1935-1960, relating to the entrance waters of Burrill Lake, County of St. Vincent. (585).—10 August 1960

Prohibits the taking of fish by means of nets of every description other than specified prawn nets, in the said waters, from 13 Oct. 1960 to 12 Oct. 1965.

- F
61-02806
- New South Wales. Laws, Statutes, etc. (1960)**
Govt Gaz., N.S.W., (102) : 2768
 Closure notification under the fisheries and oyster farms act, 1935-1960. (809).—10 August 1960

Prohibits the taking of all spp. of fish by all methods, in the specified inland waters, from 1 Sep. 1960 to 31 Aug. 1961, except, in certain waters, with a single rod held in the hand with a line attached, etc.

- F
61-02807
- New South Wales. Laws, Statutes, etc. (1960)**
Govt Gaz., N.S.W., (102) : 2765-8
 Closure notification under the fisheries and oyster farms act, 1935-1960. (808).—29 August 1960

With certain exceptions, prohibits the taking of fish in the specified inland waters from 1 Sep. 1960 to 31 Aug. 1961.

New South Wales. Laws, Statutes, etc. (1960) MF 61-02808
Govt Gaz., N.S.W., (102) : 2769

Amendment of regulations made under the fisheries and oyster farms act, 1935-1960. (778).—2 September 1960

Prohibits use of any cod end or portion of a net capable of being used as a cod end.

New South Wales. Laws, Statutes, etc. (1960) M 61-02809
Govt Gaz., N.S.W., (102) : 2769

Amendment of regulations made under the fisheries and oyster farms act, 1935-1960. (779).—2 September 1960

Amends regulation 18A by inserting new paragraph relating to specified waters which shall be classified as sea beaches or territorial ocean waters.

Queensland. Laws, Statutes, etc. (1960) MF 61-02810
8 Eliz. II, (59) : 11 p.

The fisheries act amendment act of 1959 : an act to amend the fisheries act of 1957, in certain particulars.—22 December 1959

Concerns powers of inspectors, seizure of prohibited nets or other apparatus, licences, etc.

Queensland. Laws, Statutes, etc. (1960) MF 61-02811
 Separate publication, 3 p.

Regulations under the fisheries acts, 1957 to 1959.—10 March 1960

Relative to application for licences, nets which may be used under licences, etc.

Tasmania. Laws, Statutes, etc. (1960) F 61-02812
Tasm. Govt Gaz., 215 (13, 476) : 1187

Statutory rules No. 119 of 1960: inland fisheries regulations 1960 made under the fisheries act 1959

Repeal and replace the freshwater fisheries regulations, 1956, fix the times and seasons for taking the various spp. or kinds of fish; prescribe minimum sizes of fish that may be taken; regulate the kinds of rods, bait, etc., to be used; regulate the issue of licences; and generally regulate the taking of freshwater fish.

Western Australia. Laws, Statutes, etc. (1960) MF 61-02813
Govt Gaz. W. Aust., (65) : 2299

Proclamation under the fisheries act, 1905-1956. F.D. 183/60.—21 July 1960

Prohibits all persons from taking any fish whatsoever by means of fishing nets known as or called otter trawl nets and beam trawl nets in all those portions of Western Australian waters described in the schedules hereto for a period of five years from 1st day of Aug. 1960.

REFERENCES

F
61-02814

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (65) : 2300
 Proclamation under the fisheries act, 1905-1956. F.D. 192/21.—21 July 1960

Prohibits all persons from taking, by any means of capture whatsoever, the fish known as or called "crayfish" in the portion of Western Australian waters specified.

MF
61-02815

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (66) : 2353
 Amendment of regulations made under the fisheries act, 1905-1956.—21 July 1960

Amends regulation 8 (1) of the principal regulations by substituting for paragraph (ii) a new paragraph relative to deliveries of fish to hospitals or charitable institutions; to sale at public auctions by tender, or by private treaty; to destructions if unfit for human consumption.

MF
61-02816

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (72) : 2558
 Proclamation under the fisheries act, 1905-1956. F.D. 77/34.—18 August 1960

Prohibits all persons from taking any fish whatsoever by means of fishing nets in any of the portions of Western Australian waters specified in the schedule thereto—Hardy Inlet—for a period of five years as from 16 Aug. 1960.

MF
61-02817

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (72) : 2558
 Proclamation under the fisheries act, 1905-1956. F.D. 41/20.—18 August 1960

Prohibits all persons from taking any fish whatsoever by means of fishing nets in any of the portions of Western Australian waters specified in the schedule thereto—Torbay Inlet—for a period of five years as from 1 Sep. 1960.

MF
61-02818

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (78) : 2910
 Proclamation made under the fisheries act, 1905-1956. F.D. 68/33.—7 September 1960

Declares that all those portions of Western Australian waters described in the schedule thereto shall be closed against the use of fishing nets for a period of five years, from 16 Sep. 1960.

M

Belgium. Laws, Statutes, etc. (1960)

61-02819

Monit. belge, (203) : 6312

Arrêté ministériel du 21 juillet 1960, instituant des mesures pour prévenir l'épuisement des réserves de poissons en mer, en application de l'arrêté royal du 7 mai 1958 (Ministerial order for preventing the exhaustion of ocean fisheries resources, in application of the royal order of 7 May 1958).—21 July 1960

Provides for purposes of the above order, that when certain minimum percentages of certain spp. are exceeded in a catch, e.g. 50% for herring and mackerel, 30% for eel, shrimp, smelts, etc., such catch shall be considered as mainly consisting of such spp.

M

Belgium. Laws, Statutes, etc. (1960)

61-02820

Monit. belge (220) : 6858-9

Arrêté ministériel du 1er septembre 1960, portant fixation de la rémunération à payer pour l'obtention de licences pour la recherche et la cueillette du naissain de moules pendant la période allant du 1er octobre 1960 au 30 avril 1961, sur les ouvrages de la côte et des ports du littoral (Ministerial order fixing the rate of payment to be made for obtaining licences to seek and collect mussel brood during the period from 1 October 1960 to 30 April 1961 on coastal and coastal harbour holdings).—1 September 1960

MF

Ceylon. Laws, Statutes, etc. (1960)

61-02821

Ceylon Govt Gaz., extr. (12,165) : 1350-62

Government notification under the provisions of section 46 (iv) of the Ceylon—constitution and independence—orders in council, 1946 and 1947.—23 July 1960

Ad 60-4486. Assigns departments, subjects and functions to ministers with effect from 23 Jul. 1960, as indicated in the schedule thereto. All previous assignments are hereby cancelled with effect from 23 Jul. 1960. New set up of the Ministry of Agriculture, Land, Irrigation and Power, which now incl. the Department of Fisheries.

M

Chile. Laws, Statutes, etc. (1960)

61-02822

Diario ofic., Chile, (24,672) : 1294

Decreto N° 397 por el que se establece la división del país en las zonas agrícolas y pesqueras que se indican (Decree No. 397, dividing the country into agricultural and fisheries zones as indicated).—31 May 1960

Establishes five zones, each containing from four to six provinces.

M

Chile. Laws, Statutes, etc. (1960)

61-02823

Diario ofic., Chile, (24,729) : 1643

Decreto N° 597 aprobando el reglamento para el establecimiento de industrias pesqueras en el país (Decree No. 597, regulating the establishment of fisheries industries in the country).—11 August 1960

Replaces decree No. 94 of 22 Jan. 1958 and unpublished decree No. 220 of 10 Mar. 1960. Detailed provisions on the authorization to obtain from the Ministry of Agriculture.

REFERENCES

M

Chile. Laws, Statutes, etc. (1960)

61-02824

Diario ofic., Chile, (24,736) : 1690

Decreto N° 598 por el que se reemplaza el número 1 del decreto supremo N° 837, publicado en el *Diario ofic.* del 4 de octubre de 1957 (Decree No. 598, replacing para. 1 of supreme decree No. 837, published in the *Diario ofic.* of 4 October 1957).—11 August 1960

Amends the composition of the Chilean section of the Permanent Commission on the Exploitation and Preservation of the Maritime Resources of the South Pacific to incl. representatives of the fishing and whaling industries.

M

Cuba. Laws, Statutes, etc. (1960)

61-02825

Gac. ofic., Cuba, (86) : 11071-2

Resolución por la que se establece un período de veda de las especies denominadas biajaiba, corvina y robalo (Order establishing a closed season on biajaiba,—*Mesoprion uninotatus*,—sea bass and robalo)

From 5 May to 5 Aug. 1960.

M

Cuba. Laws, Statutes, etc. (1960)

61-02826

Gac. ofic., Cuba, (98) : 12644-7

Decreto ministerial por el cual se dictan normas complementarias al reglamento del impuesto sobre utilidades de la empresa (Ministerial decree prescribing supplementary measures regulating enterprise utility taxes).—9 May 1960

Also applies to fishing enterprises.

F

Finland. Laws, Statutes, etc. (1960)

61-02827

Finlands FörfattnSaml., (160-168) : 427

N:o 166. Lantbruksministeriets beslut om inskränkning av fisket i vissa vatten i Enare kommun (Resolution No. 166 of the Ministry of Agriculture restricting fishing in certain waters in the Enare Commune).—22 March 1960

Fishing is prohibited for a period of five years as from 1 Apr. 1960 in the river Kuosnijoki in the Enare Commune within the limits specified in the text.

F

Finland. Laws, Statutes, etc. (1960)

61-02828

Finlands FörfattnSaml., (160-8) : 428

N:o 167. Lantbruksministeriets beslut om förbud mot fiske i vissa vatten (Resolution No. 167 of the Ministry of Agriculture prohibiting fishing in certain waters).—22 March 1960

Prohibits forthwith until the end of 1964 all fishing in the waters in various rural communes specified in detail in the text.

F

France. Laws, Statutes, etc. (1960)

61-02829

J. off. Rép. franç., (183) : 7393-4

Décret n° 60-827 du 2 juillet 1960 portant modification du décret n° 58-368 du 2 avril 1958 relatif à la réglementation de la pêche dans les eaux françaises du lac Léman (Decree No. 60-827, amending decree No. 58-368 of 2 April 1958, regulating fishing in the French waters of Lake Geneva).—2 July 1960

Amends rules governing the size of various spp. of fish which may be taken.

F

Germany. Federal Republic. Laws, Statutes, etc. (1960)

61-02830

BundGesBlatt dtsh. fed. Rep., I, (19) : 217-8

Gesetz über eine Betriebszählung in der Land- und Forstwirtschaft (Landwirtschaftszählung 1960) (Act relative to the census of agricultural and forest holdings).—13 April 1960

Article 6 provides for the census of inland fisheries in Jun. 1962.

F

Italy. Laws, Statutes, etc. (1960)

61-02831

Gazz. uff., Italy, (184) : 2854-66

Decreto ministeriale 10 marzo 1960 relativo alla disciplina della stampa delle licenze di pesca nelle acque dolci e dei libretti-tessera di riconoscimento (Ministerial decree relative to rules governing the printing of freshwater fishing licences and of identification licence-books).—10 March 1960

Reproduces facsimiles of the above licences in the text.

MF

Italy. Laws, Statutes, etc. (1960)

61-02832

Gazz. uff., Italy, (227) : 3548-50

Decreto ministeriale 30 aprile 1960, relativo alle concessioni di temporanea importazione (Ministerial decree relative to temporary import concessions. 30 April 1960)

Tabulates in the text the dates and duration of temporary concessions for imports of various products, incl. fish conserves.

M

Mexico. Laws, Statutes, etc. (1960)

61-02833

Diario ofic., México, (20) : 3

Acuerdo que establece la veda para la pesca de camarón en aguas marítimas frente a las costas de los estados de Nayarit, Sinaloa, Sonora y litoral oriental de la península de baja California (Order establishing a closed season on shrimp fishing in the sea waters opposite the coasts of the states of Nayarit, Sinaloa, Sonora, and east coast of the peninsula of lower California).—5 July 1960

From 16 Jul. to 15 Sep. on an experimental basis.

REFERENCES

M

Mexico Laws, Statutes, etc. (1960)

61-02834

Diario ofic., México, (133) : 4

Acuerdo que dispone que la importación de harinas de residuos de animales marinos queda sujeta a previo permiso de la Secretaría de Industria y Comercio inclusive para las zonas y perímetros libres del país (Order subjecting imports of flours of sea animal residues to prior authorization by the Secretary of Industry and Commerce, including imports into the free zones and areas of the country).—14 July 1960

M

Netherlands. Laws, Statutes, etc. (1959)

61-02835

Staatscourant. Neth., (133) : 7

Onttrekking Gedeelte Waddenzee aan de Openbare Visserij. 10 juli 1959/Nr. Vi. 2825/Directie van de Visserijen (Order No. Vi. 2825/Directie van de Visserijen issued by the Minister of Agriculture and Fisheries closing certain parts of the Waddenzee—northern part of the Zuiderzee—to public fishing).—10 July 1959

MF

Netherlands. Laws, Statutes, etc. (1959)

61-02836

Staatsblad, Neth., text 379 : 853-4

Besluit van 15 oktober 1959 tot nadere wijziging van het Visbesluit (Warenwet) (Decree re-amending the decree relative to fish—foodstuffs act—as published in *Stbl.* 840 of 1940 and as last amended in *Stbl.* 534 of 1955).—15 October 1959

Refers to written specifications relative to parts of fresh fish exposed for sale in markets and public sales premises. Preserving agents, colouring matters, etc.

MF

Netherlands. Laws, Statutes, etc. (1959)

61-02837

Staatsblad, Neth., text 380 : 855

Besluit van 20 oktober 1959, houdende wijziging van enige visserijreglementen (Decree amending certain fishing regulations.—20 October 1959)

The decree amends a certain number of regulations relative to fishing in the Zuiderzee and in rivers and the decree of 21 Oct. 1954, *Stbl.* 487, concerning some of the following points: permitted periods for fishing with a seine or various other nets, dimensions of net meshes, dimensions of fish, etc.

M

Norway. Laws, Statutes, etc. (1960)

61-02838

Norsk Lovtid., (3) : 71-2

Resolusjon om regler for fiske etter sild og brisling med flytetralø. 1. (Royal resolution specifying rules governing herring and sprat fishing using trawl nets or the like).—22 January 1960

Pursuant to art. 37 of the herring and brisling fisheries act of 25 Jun. 1937 as amended by the act of 17 Apr. 1957. Specifies provisions governing the use of trawl nets or other ocean fishing gear which, when used in herring and brisling fisheries, is drafted by one or more vessels, and *inter alia* prohibiting any part of such gear from being drafted along the sea bottom within Norwegian fishing waters.

- M
61-02839
- Norway. Laws, Statutes, etc. (1960)**
Norsk. Lovtid., (3) : 73

Bestemmelser om bruk av flytetral under vintersildfiske (Provisions governing the use of trawl nets in winter herring fishing).—22 January 1960

Pursuant to the act of 25 Jun. 1937 relative to herring and brisling fisheries. Until further notice fishermen shall be allowed to catch herring, south of Stad, from 2 hours after sunset until 3 hours before sunrise.

- MF
61-02840
- Pakistan. Laws, Statutes, etc. (1960)**
Gaz. Pakistan, extr., (1) : 938

The finance ordinance, 1960: ordinance No. 25 of the Ministry of Finance (Revenue Division) to give effect to the financial proposals of the central government for the year beginning on the first day of July 1960).—30 June 1960

Extensive ordinance on customs duties, incl., *inter alia*, fisheries products.

- M
61-02841
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5737) : 1

Resolución ministerial N° DC-867 por la que se establece el fondo de provisión de los pescadores (Ministerial resolution No. DC-867, establishing a fishermen's welfare fund).—25 May 1960

Covering accident, death and other risks.

- M
61-02842
- Poland. Laws, Statutes, etc. (1960)**
Dziennik Ustaw, (16) : 160, text 95

Rozporządzenie Ministra Żeglugi i Gospodarki Wodnej z dnia 4 marca 1960 r. o zmianie rozporządzenia z dnia 17 listopada 1954, r.w. sprawie ochrony rybołówstwa na Zalewie Szczecińskim (Order of the Minister of Navigation and Waters Economy amending the order of 17 November 1954, *Dz.U.* No. 53 of 1954, text 267 and No. 66 of 1958, text 327, relative to the protection of fisheries in the Zalewie Szczecin area).—4 March 1960

- M
61-02843
- Portugal. Laws, Statutes, etc. (1960)**
Diário do Gov., Portugal, I, (73) : 822

Portaria n.º 17 649: suspende a cobrança pelo Grémio dos Armadores de Navios da Pesca do Bacalhau do quantitativo de \$02 por quilograma de bacalhau salgado verde, destinado ao Fundo de exercício (estudos) pela portaria n.º 9095 (Order No. 17.649 of the Ministry of Economy suspending the charge by the Codfishing Boatbuilders Association of the amount of 0.2 escudos per kg of salted green codfish, intended for the working—research—fund pursuant to order No. 9095 of 2 November 1938).—29 March 1960

- M
61-02844
- Portugal. Laws, Statutes, etc. (1960)**
Bol. ofic., Cabo Verde, (23) : 436

Despacho autorizando a Companhia de Pesca e Congelacao de Cabo Verde, Limitada, a exercer a pesca de lagostas e mariscos (Order of the Foreign Trade Board authorizing the Cabo Verde Fish and Refrigeration Company to conduct lobster and crustacean fisheries).—2 June 1960

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Union of South Africa. Laws, Statutes, etc. (1960) 61-02845
Govt Gaz., S. Afr., extra, (6488) : 2

No. R. 1028. Doeanewet, 1955. Wysiging van die eerste bylae (No. 1/38) (Government notice No. R 1028 under the customs act, 1955, amending the first schedule, No. 1/38, to the said act).—15 July 1960

As from the date of publication hereof, animal or fish glue is provided for under a separate item.

MF

Union of South Africa. Laws, Statutes, etc. (1960) 61-02846
Govt Gaz., S. Afr., extra, (6488) : 3

No. R. 1030. Doenanewet, 1955. Wysiging van die tweede bylae (No. 2/35) (Government notice No. R 1030 under the customs act, 1955, amending the second schedule, No. 2/35, to the said act).—15 July 1960

As from the date thereof, the rebate of duty on animal or fish glue is curtailed or withdrawn in respect of the items mentioned.

M

Union of South Africa. Laws, Statutes, etc. (1960) 61-02847
Govt Gaz., S. Afr., (6502) : 6-7

No. 262, 1960. Wet op seevisserye, No. 10 van 1940 (Proclamation No. 262, made under the sea fisheries act, No. 10 of 1940 as amended).—22 July 1960

Establishes in a specified area closed seasons for pilchards, maasbankers and mackerel. The prohibition shall not apply to the catching of the said fish for any purpose other than: (a) canning or the production of fish meal, fish oil or fish fertilizer; (b) the sale to any person for the purpose of canning or the production of fish meal, fish oil or fish fertilizer.

M

Union of South Africa. Laws, Statutes, etc. (1960) 61-02848
Govt Gaz., S. Afr., (6516) : 6-7

No. 303, 1960. Wet op seevisserye, 1940. Kreefreservate (Proclamation No. 303, 1960, made under the sea fisheries act, 1940, as amended, relative to rock lobster sanetuaries). 13 August 1960

Forbids any person to capture, attempt to capture, disturb or remove rock lobster, *Jasus lalandii*, within the areas defined in the schedule thereto. Repeals proclamation No. 157 of 1952, as amended by proclamation No. 255 of 1953 and proclamation No. 148 of 1955.

M

Union of South Africa. Laws, Statutes, etc. (1960) 61-02849
Govt Gaz., S. Afr., extra, (6515) : 3-4

No. R. 1234. Doeanewet, 1955. Wysiging van die eerste bylae (No. 1/50) (Government notice No. R. 1234, under the customs act, 1955, amending the first schedule, No. 1/50, to the said act).—19 August 1960

Makes specific provision in the customs tariff for lobster nets at the rates of duty indicated.

- M
61-02850
- Union of South Africa. Laws, Statutes, etc. (1960)**
Govt Gaz., S. Afr., extra, (6515) : 5
 No. R. 1236. Doeane wet, 1955. Wysiging van die tweede bylae (No. 2/41) (Government notice No. R. 1236 under the customs act, 1955, amending the second schedule, No. 2/41, to the said act).—19 August 1960

Polymerized refined fish oil may be imported or taken out of bond under rebate of duty by registered manufacturers for use in the manufacture of smoked small fish in oil.

- M
61-02851
- U.A.R. (Syria). Laws, Statutes, etc. (1960)**
Rec. Lois Législ. financ. U.A.R., (8) : 51

Arrêté n° 441 du 23 août 1960 soumettant l'exportation de la sardine au régime de la licence (Annexe du J.O. No. 36, 8 septembre 1960, p. 5809) (Order No. 441 subjecting sardine exports to a licence).—23 August 1960

- M
61-02852
- North Borneo. Laws, Statutes, etc. (1960)**
Govt Gaz. Col. N. Borneo, (35) : 330-1

Notification No. 512. No. A. 601/8: the customs (values) (Agricultural, forest, sea products and miscellaneous) (No. 9) Order, 1960? pursuant to the customs ordinance, cap. 33.—20 August 1960

Relates, *inter alia*, to dried and salted fish and fish refuse, fish—fresh or frozen.

- M
61-02853
- U.S. Treaties, etc. (1960)**
Treaties and oth. int. Acts. U.S.A., (4493) : 4 p.

Amendment to the annex to the convention on high sea fisheries of the North Pacific Ocean, signed at Tokyo May 9, 1952. Adopted at the Sixth Annual Meeting of the International North Pacific Fisheries Commission. Seattle, Washington, on November 7, 1959.—24 May 1960

Affects S 1(b) of the annex on herring fishing area.

- M
61-02854
- Venezuela. Laws, Statutes, etc. (1960)**
Gac. ofc., Rep. Venezuela, (26.349) : 195.361

Resolución No. RNR-266, por la cual se dictan normas a fin de proteger la especie denominada "pepitonas" (*Arca occidentalis*) (Resolution No. RNR-266, prescribing regulations for the protection of the species known as "pepitonas", *Arca occidentalis*).—2 September 1960

Open season on this mollusc is from Sep. to Apr.

- M
61-02855
- Tucker, D. W. (1960)**
Ann. Mag. nat. Hist., Ser. 13, 3 : 63-4

Note on the nomenclature of British clingfishes, with special reference to *Apletodon microcephalus* (Brook)

Ci 1954 Corbin, P. G. and 28-2742BO. Synonymy with *Lepadogaster microcephalus* and *L. couchii*.

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61-02856

Warwick, T. & K. H. Mann (1960)
Ann. Mag. nat. Hist., Ser. 13, 3 : 25-34
 The freshwater leeches of Scotland

Reviews occurrence, distribution and ecology of various spp. incl. *Hemiclepsis* and *Piscicola* spp., parasitic on fish.

M

61-02857

Rowell, A. J. (1960)
Ann. Mag. nat. Hist., Ser. 13, 3 : 35-52

Some early stages in the development of the brachiopod *Crania anomala* (Müller)

Rearing of specimens in samples taken periodically off Argyll, western Scotland.

MF

61-02858

Everard, C. O. R. (1960)
Ann. Mag. nat. Hist., Ser. 13, 3 : 53-9

The salinity tolerance of *Panagrolaimus rigidus* (Schneider, 1866), Thorne, 1937, and *Panagrolaimus salinus* Everard, 1958. (Nematoda : Panagrolaiminae)

Field observations in River Blackwater, England.

G

61-02859

Robertson, H. A. & I. R. Falconer (1960)
J. Endocrin., 21 : 411-20

The estimation of thyroid activity : an evaluation of certain parameters

Mathematical and experimental basis for the determination of a series of parameters of thyroid function is put forward.

MF

61-02860

Migdalski, E. C. (1960)*
 New York, Ronald Press Co., 218 p.

How to make fish mounts and other fish trophies

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61-201me to 61-240me

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| Conferences on Science and World Affairs. 5/9/61
Stowe, Vermont. 5 days
Conference on international cooperation in pure and applied science | G
61-201me |
| Alberta Resources Conference. 9/2/60
Edmonton, Alberta, Can.
2nd Meeting | MF
61-202me |
| Society of European Nematologists. 24/7/61
Ghent, Belgium. 5 days
6th International nematological symposium | MF
61-203me |
| NAS (US). 29/10/61
La Jolla, Calif., Los Angeles. 3 days
Meeting | MF
61-204me |
| Instrument Society of America. 26/9/60
New York. 5 days
15th Annual instrument-automation conference and exhibit | G
61-205me |
| American Geophysical Union. 26/1/61
Berkeley, Calif.
Pacific southwest regional meeting | MG
61-206me |
| Office of Naval Research/Netherlands Ship Model Basin. 19/9/60
Sheveningen, Neth. 4 days
3rd Symposium on naval hydrodynamics | M
61-207me |
| Oceanographic Institute, Florida University. 24/10/61
Tallahassee, Fla. 2 days
1st National conference on shallow water research, Gulf Coast | M
61-208me |
| Oceanographic Institute, Florida University. 27/10/61
Los Angeles, Calif. 2 days
1st National conference on shallow water research, Pacific Coast | M
61-209me |

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IAEA. 22/11/61 G
61-210me
Mexico City, D.F. 10 days
Radioisotopes in animal biology and the medical sciences, conf.

AAAS. 26/12/61 MF
61-211me
Denver, Colo. 6 days
Annual meeting

IMCO. 8/1/62 M
61-212me
London? U.K. 3 days
5th Marine safety committee

Marine Biological Association of India. 12/1/62 M
61-213me
Mandapam, India. 4 days
Symposium on scombroid fishes

NPFSC. 22/1/62 M
61-214me
Washington, D.C. 5 days
Meeting for review of fur seal research and management programs

Challenger Society. 31/1/62 M
61-215me
London, U.K. 1 day
213th Scientific meeting (jointly with British Glaciological Society)

W. Wittman will read paper on characteristics of the under-surface of sea ice.

**Challenger Society/Representatives from
Marine Laboratories.** 1/2/62 M
61-216me
Wormley, Surrey, U.K. 2 days
Meeting

Will comprise one-day discussion on chemical oceanography covering Inter-calibration for Indian Ocean Expedition, comparative tests in Hawaii by F. A. J. Armstrong, and at Lowestoft and Aberdeen by P. G. W. Jones and R. Johnston, decisions of ICES Hydrographical Committee, and second day with following papers: A. H. B. Stride, "Some aspects of the geology of the continental shelf", J. Crease, "The variability of currents in the deep ocean", M. A. Johnson, "Turbidity currents", A. R. Stubbs, "Acoustic fish-detection", R. I. Currie, "The radiant energy received by phytoplankton", P. S. B. Digby, "Factors affecting pressure sensitivity in *Palaemonetes* and *Daphnia* and the gas layer theory", M. R. Clarke, "The identification of cephalopod beaks and their significance in systematic and ecological studies of squids and their predators", P. Foxton, "Experiments in closing the Isaacs-Kidd mid-water trawling".

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| IMCO. 20/2/62
London? U.K. 4 days
5th Session of the council | M
61-217me |
| UNESCO, Southeast Asia Science Cooperation Office. 5/3/62
Manila, Philippines. 4 days
Regional meeting of representatives of marine science institutions in east and southeast Asia | M
61-218me |
| CCTA/CSA. 6/3/62
Fort Lamy, Chad. 4 days
1st Meeting of the co-ordinating committee for Lake Chad—Meeting of hydrologists from countries bordering Lake Chad | F
61-219me |
| GLFC/Research Division. 9/4/62
Toronto, Ontario, Canada. 2 days
5th Conference on Great Lakes research | F
61-220me |
| UNESCO/IOC Bureau. 10/4/62
Paris. 3 days | M
61-221me |
| International Fisheries Fair. 14/4/62
Copenhagen, Denmark. 10 days
4th international fisheries fair | MF
61-222me |
| SCOR/ 16/4/62
Executive committee
London. 3 days
Meeting | M
61-223me |
| PCIFC. 8/5/62
Hamburg, Germany, 4 days
Meeting | MF
61-224me |
| Office of Naval Research/Information Systems Branch/ Armour Research Foundation. 22/5/62
Chicago, Ill. 3 days
Conference on self-organizing systems

Objective is to bring together research workers concerned with evolution of self-organizing information systems, to evaluate recent progress and consider the future directions of research. Emphasis placed upon the salient research of past three years. | G
61-225me |
| GLFC. 19/6/62
Ann Arbor, Mich. 2 days
Annual meeting | F
61-226me |

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- Shrimp Association of the Americas.** 21/6/62 M
61-227me
Mexico City, Mexico. 3 days
11th Annual meeting
- FAO.** 2/7/62 M
61-228me
La Jolla, Calif., U.S.A. 13 days
World scientific meeting on the biology of tunas and related species
Amendment to 61-140me
- FAO.** 2nd half/8/62 G
61-229me
Lebanon.
Near East regional conference
- AIBS/ASLO.** 26/8/62 MF
61-230me
Corvallis, Oregon. 5 days
Meeting
- The International Conference on Water
Pollution Research.** 3/9/62 F
61-231me
London. 5 days
Programme of Conference provides for separate symposia to take place simultaneously in three sections: I. Self-purification of fresh water streams and the effects of pollution on fisheries. II. Treatment of sewage and industrial wastes. III. Effects of pollution on the marine environment.
- FAO.** 2nd and 3rd week/9/62 G
61-232me
Malaya.
Asia and Far East regional conference
- ICES.** 28/9/62 M
61-233me
Copenhagen, Denmark. 24 days
Symposium on problems in the exploitation and regulation of fisheries for Crustacea
- SPC.** 1/10/62 MF
61-234me
Noumea, New Caledonia. 10 days
Fisheries technical meeting
- IAEA.** 8/10/62 G
61-235me
Vienna. 6 days
Symposium on the treatment and storage of high level radioactive wastes
- GCFI.** 12/11/62 M
61-236me
Galveston, Texas, U.S.A. 5 days
Meeting

MEETINGS

National Fisheries Institute. 19/4/63 61-237me
Philadelphia, Pa., U.S.A. 6 days
Meeting

FAO. last week/5/63 MF
London, U.K. 61-238me
2nd International fishing gear congress

International Congress of Zoology. 21/8/63 G
Washington. 7 days 61-239me
16th Congress

IUGG. last week/8/63 M
Berkeley, Calif. 12 days 61-240me
Symposium on oceanographic instrumentation

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Nature, Lond., 188 (4747) : 266-8

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Nature, Lond., 188 (4747) : 324-5

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Kingstone, Govt Printer, 81 p.

Annual report of the Ministry of Agriculture and Lands for the year ended 31st December, 1957

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 Washington, D.C., 95 p.
 Tuna fish—Report on investigation conducted pursuant to a resolution by the Committee on Finance of the United States Senate dated August 20, 1957
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Amer. J. Sci., 258 (3) : 177-84
 The effect of sediment type on the shape and stratification of some modern fluvial deposits
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- West Indies. Ministry of Natural Resources & Agriculture (1960)**
W. Ind. Fish. Bull., (1) : 39 p.
 Monthly extension bulletin giving information on fisheries of the territories of the Federation and of other countries in the region, on the activities of international organizations concerned with fisheries and on literature received

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61-03051
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Rep. F.A.O./E.T.A.P., (1174) : 41 p.
 Report to the Government of Brazil on the organization of fish processing research
- Report on FAO project carried out under UN Expanded Technical Assistance Programme. Recommendations for organizing research activities in processing and preservation of fish. Summarizes the present state of industry, practices in fish processing, status of fish processing research, experts' attempts at organizing research and recommendations, with appendices.
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- Lombard, G. L. (1958)**
Fauna & Flora, Transvaal, (9) : 25-7
 The water mongoose *Atilax paludinosus*
- Describes distribution, habitat, feeding habits, diet of aquatic animals, etc.
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- Pople, W. (1960)**
S. Afr. J. Sci., 56 (2) : 39-42
 The occurrence of *Coeloplana* in Natal, South Africa
- Describes *C. gonoctena* Krempf var. *natalensis* nov. var., from a littoral rockpool near Durban. Discusses the complex community in which it occurs.
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- Klausewitz, W. & I. Eibl-Eibesfeldt (1959)**
Senck. biol., 40 (3-4) : 135-53
 Neue Röhrenaale von den Maladiven und Nikobaren (Pisces, Apodes, Heterocongridae) (New garden eels from the Maladive and Nicobar Islands —Pisces, Apodes, Heterocongridae)
- Taxonomical description.
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- Muncy, R. J. (1959)**
Resour. Stud. Rep. Md., (15) : 13 p.
 Evaluation of the yellow perch hatchery program in Maryland
- Analyses catch and stocking records and other data to evaluate program. In all available data there were no indications that hatchery operations had any effect on the number of fish available later as adults.
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S. Afr. Shipp. News Fish. Ind. Rev., 15 (2) : 59-63
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 Los fondos de Cabo Verde (The grounds of Cape Verde)
 A survey of ichthyofauna distribution.
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J. Wildlife Mgmt, 23 (2) : 220-3
 A comparison of methods for estimating squirrel populations
 Compares results of Schnabel mark-recapture estimates and time-area census. Former were more satisfactory especially when based on trap-sight rather than trap-recapture data. Issued also as: *Contr. Chesapeake biol. Lab.*, (122).
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- Ralph, P. M.** (1959)
Proc. zool. Soc. Lond., 133 (2) : 171-7
 The status and affinities of the anthomedusan *Paragotoea bathybia* Kramp, 1942
 Describes and ill. two specimens taken in 1956-57 by 'Sarsia' in approaches to English Channel, and known previously only from Frederikshaab, Greenland. Author removes sp. from the Tubulariidae and creates new family, Paragotoeidae, for it. Comparison with Japanese *Gotoea*, Tubulariidae.
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- Woodhead, P. M. J. & A. D. Woodhead** (1959)
Proc. zool. Soc. Lond., 133 (2) : 181-99
 The effects of low temperatures on the physiology and distribution of the cod, *Gadus morhua* L., in the Barents Sea
 Formulates hypothesis that temperature had a real effect upon the cod, acting as a physiological limit, possibly operating through the breakdown of the mechanism of osmotic regulation; and that the temperature limit of the cod might vary during the course of the year in accordance with changes in the physiology of the fish, which were probably controlled by the activity of glands of the endocrine system. Tested and confirmed this hypothesis in Barents Sea by analysis of blood of freshly caught and killed fish, and histological study. Discusses, in light of these results, historical changes in cod distribution and stock size, in relation to climatic changes.

F

The Earl of Cranbrook (1959)

61-03062

Proc. zool. Soc. Lond., 133 (2) : 245-9

The feeding habits of the water shrew, *Neomys fodiens bicolor* Shaw, in captivity and the effect of its attack upon its prey

Tank experiments on the feeding of this sp. on fish, water snails, Crustacea and aquatic insects, with special reference to the effect of poison secreted by the submaxillary gland.

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Wells, G. P. (1959)

61-03063

Proc. zool. Soc. Lond., 133 (2) : 301-14

The genera of Arenicolidae (Polychaeta)

Ill. history and revision of group, with key. Reference to *Arenicola*, *Branchiomaldane*, *Arenicolides* and *Abarenicola*.

M

Healy, E. A. & G. P. Wells (1959)

61-03064

Proc. zool. Soc. Lond., 133 (2) : 315-35

Three new lugworms (Arenicolidae, Polychaeta) from the North Pacific area

Ill. description and distribution on North American coast, Russian and Japanese coasts of spp. of new genus *ABARENICOLA*. Forms of burrows, breeding season, spawning behaviour. Ci 61-03063.

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Martin, W. R. (1960)

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Fisheries Research Board of Canada mimeo, 2 p.

Research vessel 'A. T. Cameron'—Report for cruise no. 21

From 24 Mar. to 30 Mar. 1960. Area of operation: Sable Island, Western and Emerald Banks. Defines purposes as to study the distribution of ground-fish—mainly haddock—in relation to area, depth and hydrography, over Sable Island, Western and Emerald Banks. To tag haddock, cod and halibut on Western Bank to define populations and their migrations.

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Chambers, T. C. (1959)

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Proc. Linn. Soc. N.S.W., 84 Pt. 3 (391) : 338-45

A revision of *Nitella cristata* Braun (Characeae) and its allies—Part 1. Experimental taxonomy

Clones for three forms of *N. cristata* were grown under different light, temperature and day-length conditions. The resulting environmental variations indicate that relative length and form of fertile and sterile whorls are not reliable diagnostic characters for this sp.

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61-03067
- Williams, M. B.** (1959)
Proc. Linn. Soc. N.S.W., 84 Pt. 3 (391) : 346-55
 A revision of *Nitella cristata* Braun (Characeae) and its allies—Part 2.
 Taxonomy

Co 61-03066. Evidence that certain key characters may be subject to modification by the environment is used in a revision of some of the dioecious Pluricellulatae of the genus *Nitella*. *N. cristata* and *N. diffusa* are redefined, two new spp. are described, and a key to the 4 spp. is given.

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- Huet, M.** (1959)
Bull. franç. Pisc., 31 (192) : 89-103

Aperçu de la pisciculture dans les régions tropicales en Extrême-Orient et en Afrique Centrale (Brief review of fishculture in tropical regions of the Far East and Central Africa)

Essentials of observations on various methods of fishculture practised in Indonesia.

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61-03069
- Vibert, R.** (1959)
Bull. franç. Pisc., 31 (192) : 104-15
 Dispositif vertical d'incubation en masse (Vertical apparatus for mass incubation)

Description, handling and possibilities of apparatus used in salmon and trout culture.

- F
61-03070
- Bellet** (1959)
Bull. franç. Pisc., 31 (192) : 116-24
 L'octomitiase des truites arc-en-ciel et fario (The octomitiase of rainbow and fario trout)

Description of parasite, *Octomitus salmonis*; disease, diagnosis, prognosis and treatment.

- F
61-03071
- Huet, M.** (1959)
Bull. franç. Pisc., 31 (193) : 129-44

Aperçu de la pisciculture dans les régions tropicales en Extrême-Orient et en Afrique Centrale (Review of fishculture in the tropical regions of the Far East and Central Africa)

Co 61-03068. Reviews types and problems of fishculture in the Belgian Congo.

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61-03072
- Magnin, E.** (1959)
Bull. franç. Pisc., 31 (193) : 152-9

Détermination de l'âge et croissance de l'*Acipenser sturio* L. de la Gironde (Age and growth determinations of *Acipenser sturio* L. of the Gironde)

Age and growth determinations by study of sections of first pectoral fin ray.

Brunet, M. (1959)F
61-03073*Bull. franç. Pisc.*, 31 (193) : 162-71

Les poissons carnassiers de repeuplement (Carnivorous fishes for stocking)

CR 59-5806. Discusses culture of *Perca fluviatilis*, *Micropterus* spp. *Esox lucius*, and *Lucioperca sandra*.**Rotschi, H. (1959)**M
61-03074*Rapp. sci. Inst. franç. Océanie*, (14) : 18 p.Résultats des observations scientifiques du 'Tiare'—Croisière "Dauphin" (8-14 août 1959) sous le commandement du lieutenant de vaisseau Cerebelaud
Results of scientific observations of 'Tiare'—Cruise "Dauphin", 8-14 Aug. 1959, under the order of the lieutenant Cerebelaud)

Tabular oceanographical data from New Caledonian waters with short summary notes.

Italy. Istituto di Idrobiologia "Dott. Marco de Marchi" (1959)F
61-03075*Mem. Ist. ital. Idrobiol. de Marchi*, 11 : 272 p.

Contains "Report of the Directory on the scientific activity of the Institute in the year 1958"—research carried out, guests, facilities, publications, staff—and 61-03076 to 61-03081.

Hutchinson, G. E. (1959)G
61-03076*Mem. Ist. ital. Idrobiol. de Marchi*, 11 : 9-22

I. concetto moderno di nicchia ecologica (The modern concept of ecological niches). En

Defines the concept in such a way that the Volterra-Gause principle that 2 coexisting spp. do not occupy the same niche is an inductive non-tautological generalization which applies only to equilibrium states. Equilibrium is probably never achieved where it does not apply. MacArthur devised two models for distribution of number of individuals in a sp. These models apply only to biological associations of organisms of about the same size, living in homogeneously diverse biotopes, in which the mean free paths of the organisms in question are large compared to the elements of the environmental mosaic.

Tonolli, L. (1959)F
61-03077*Mem. Ist. ital. Idrobiol. de Marchi*, 11 : 61-71*Eudiaptomus zachariasii* Poppe in un laghetto della Conca dei Pantani (Monti Sibillini, Appennino Centrale) (*Eudiaptomus zachariasii* Poppe in a small lake in the Conca dei Pantani, Sibilline Hills, Central Appennines). En

Morphological description and biometry of this second record of the sp. in Italy from a lake at 1600 m altitude.

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- Ruttner, F.** (1959)
Mem. Ist. ital. Idrobiol. de Marchi, 11 : 73-111
 Einige Beobachtungen über das Phytoplankton norditalienischer Seen
 (Some investigations on the phytoplankton of north Italian lakes)
- Contains many tables of spp. and their occurrence ; abundance by depth; seasonal changes.
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61-03079
- Povoledo, D.** (1959)
Mem. Ist. ital. Idrobiol. de Marchi, 11 : 113-32
 Sulla presenza di chetoacidi nei sedimenti di alcuni laghi dell'Italia settentrionale (On the presence of keto-acids in the sediments of some lakes in northern Italy). En
- Chromatographic and electrophoretic analysis of samples from L. Maggiore, Varese, and Mergozzo.
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61-03080
- Mirolli, M.** (1959)
Mem. Ist. ital. Idrobiol. de Marchi, 11 : 133-84
 Studio della correlazione fra la forma della conchiglia et un carattere anatomico nelle popolazioni di *Lymnaea radix* del Lago Maggiore (Study of the correlation between the form of the shell and an anatomical character in the populations of *Lymnaea radix* in Lake Maggiore). En
- Correlation between length of sperm duct—which is a certain means of separating the two forms *L. auricularia* and *L. peregra* in L. Maggiore having stations with mono-specific and mixed populations and a linear discriminant function which is derived from four indices, two ratios of breadth to length of shell, the ration of length of mouth to that of the shell, a measure of the squatness of the body coil. Age and size compositions of the populations.
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61-03081
- Pecorini, M. G.** (1959)
Mem. Ist. ital. Idrobiol. de Marchi, 11 : 213-38
 Larve di cestodi nei copepodi del Lago Maggiore (Larvae of cestodes in copepods of Lake Maggiore). En
- Spp. of *Proteocephalus* infesting spp. of *Eudiaptomus*, *Cyclops*, *Mesocyclops* and *Mixodiaptomus*. Definitive hosts are *Alosa finta* and *Coregonus lavaretus*. Geographic variation in infestation rate, and the effect on this of variations in body size of the copepods.
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61-03082
- Schäperclaus, W.** (1959)
Dtsch. FischZtg., 6 (9) : 281-2
 Beeinflussung des Wachstums von Karpfen durch die einmalige intraperitoneale Injektion antibiotischer Mittel beim Besetzen der Teiche (Influencing the growth of carp with a single intraperitoneal injection of an antibiotic before the restocking of ponds)
- Describes experiments and compares results obtained from treated and untreated carp populations.

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61-03083

Stegmann, K. (1959)
Dtsch. FischZtg., 6 (9) : 283-5

Einfluss der Wassertemperaturen in Teichen auf den Naturzuwachs der zweisömmerigen Speisekarpfen (Influence of water temperatures in ponds on the natural growth of 2-summer old carp)

Analyzes results obtained and states that for carp farms situated in central Poland, the natural productivity responds to the number of days with more than 20°C.

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61-03084

Snow, H., A. Ensign & J. Klingbiel (1960)
Publ. Wis. Conserv. Dep., (230) : 14 p.

The bluegill—Its life history, ecology and management

Discusses *Lepomis macrochirus* as per title, with special reference to Wisconsin.

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61-03085

Veeraraghavan, K. G. & A. S. Hariharan (1960)
J. sci. industr. Res., 19C (1) : 33-4

Purification of tannery wastes by flow in a channel

MF
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International Commission on Zoological Nomenclature (1960)
Bull. zool. Nom., 17 (6-8) : 161-256

Proposals for use by the International Commission of its plenary powers in nomenclatorial generic, specific and other cases and requests for ruling on the same subject.

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61-03087

Huet, M. & J. A. Timmermans (1958)
Trav. Sta. Rech. Groenendaal, (24D) : 18 p.

Esociculture—Production de brochetons de sept semaines (Esociculture—Production of seven weeks old pikes). *Fr Ne*

Reviews and comments on techniques.

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61-03088

Stephenson, J. L. (1960)
Bull. math. Biophys., 22 (1) : 1-17

Theory of transport in linear biological systems: 1. Fundamental integral equation

Analysed in detail. Methods of solving equation are briefly discussed. Theory is applied to problems in tracer kinetics in which input and output are sums of exponentials, and explicit formulae, which are applicable whether or not the pool is uniformly mixed, are derived for "turnover time" and "pool" size.

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Hart, H. E. (1960)
Bull. math. Biophys., 22 (1) : 41-52

Analysis of tracer experiments: 4. The kinetics of general N compartment systems

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- Rashevsky, N.** (1960)
Bull. math. Biophys., 22 (1) : 63-71
On imitative behaviour
- It is shown that the linear equations of the formal theory of mass behaviour proposed by the author in 1939 are 1st-order approximations of the biophysical theory proposed later. The 2nd approximation contains cubic terms. It permits the expression of the time course of the change of behaviour in terms of a quadrature.
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- Dan, D. & I. Căpușe** (1959)
Folia balc., 2 (1) : 1-8
Niphargopsis trispinosus n.sp. genus new to the Roumanian fauna (Amphipoda). Ru
- Systematics and distribution of this sp.
- F
61-03092
- Kabel, C. S. & R. L. Butler** (1959)
Adm. Rep. Int. Fish. Calif., (59-15) : 25 p.
Rush creek test stream, Mono County: summary report
- Creel census analysis of brown trout, *Salmo trutta*, phase of investigations of test stream.
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- Wise, J. P.** (1960)
Rome, FAO, mimeo, 44 p.
A synopsis of biological data on cod *Gadus morhua* (Linnaeus 1758)
- Gives compiled information on the identity, distribution, bionomics and life history, population and exploitation. Incl. bibliographic lists.
- M
61-03094
- IHB** (1960)
Int. hydr. Bull., (3) : 60-87
- Contains notes on activities of the Bureau and information on charts, sailing directions, lights, tides and currents, work carried out and projected and new charts and new editions of charts.
- MF
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- Sweden. Officiella Statistik** (1960)
Stockholm, 77 p.
Fiske 1958 (Fishing 1958)
- Swedish fisheries statistics for the year 1958.
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- Barnard, G. A.** (1959)
J. R. statist. Soc., 21B (2) : 239-57
Control charts and stochastic processes
- A new approach to control charts for industrial processes is suggested, based on idea that underlying stochastic process should be specified, its parameters estimated, and the control procedure related to these.

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Zoutendijk, G. (1959)

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61-03097

J. R. statist. Soc., 21B (2) : 338-55

Maximizing a function in a convex region

To solve this problem a new method is developed, to be called "method of feasible directions". It is a method of steep ascent.

Williams, E. J. (1959)

G
61-03098

J. R. statist. Soc., 21B (2) : 396-9

The comparison of regression variables

Hotelling's test of significance for difference in efficiency of predictors is reformulated in terms of regression analysis. A test proposed by Healy is shown to differ from Hotelling's test in general.

Cox, D. R. (1959)

G
61-03099

J. R. statist. Soc., 21B (2) : 411-21

The analysis of exponentially distributed life-times with two types of failure

A number of alternative probability models are considered for the interpretation of failure data. Some of the statistical techniques that can be used for such data are ill. on an example discussed recently by Mendenhall & Hader.

Sjöblom, V. (1960)

MF
61-03100

FiskTidskr. Finl., (1) : 4-16

Om växlingarna i strömmingsbeståndet (On fluctuations in the herring stock)

Year class composition and relative size of the stocks of Baltic herring in the waters around Finland and methods of prediction of herring catches in coming years. Comparison of predicted catches with real catches.

Jansson, A. (1960)

MF
61-03101

FiskTidskr., Finl., (1) : 34-6

Till frågan om höstströmmingen (On the question of autumn herring)

Discussion on the occurrence of spring and autumn herring along the coast during different periods.

USFWS. Bureau of Commercial Fisheries (1959)

MF
61-03102

Fish. Leaflet, Wash., (452): 19 p.

Fishery motion pictures

Contains technical details and annotations of films produced and distributed by US Bureau of Commercial Fisheries, mostly on commercial matters and fish utilization.

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- Film—USFWS, Bureau of Commercial Fisheries (1959)**
Washington, D.C., Bureau of Commercial Fisheries
It's the Maine sardine
- 20 min, 16 mm, color.
- M
61-03104
- Film—USFWS, Bureau of Commercial Fisheries (1959)**
Washington, D.C., Bureau of Commercial Fisheries
Pacific halibut fishing
- 16 min, 16 mm, color, sound.
- M
61-03105
- Film—USFWS, Bureau of Commercial Fisheries (1959)**
Washington, D.C., Bureau of Commerical Fisheries
The story of menhaden
- 20 min, 16 mm, color, sound.
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- Griesseier, H. (1959)**
Acta hydrophys., 6 (1) : 5-42
Über die Verwendung von Luminoforen beim Studium der litoralen
Materialbewegungen (On the use of luminophores in the study of the sand
movement in the littoral zone)
- Objective review of Russian work on this subject.
- M
61-03107
- Film—Bini, G. (1960)**
Roma, Ministero della Marina Mercantile, Divisione Generale della Pesca
Reti a strascico nella pesca delle sogliole (Beam-trawls for sole fishery)
- 30 min, 16 mm, b & w, sound. CR 61-00460.
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61-03108
- Epstein, B. (1960)**
Technometrics, 2 (1) : 83-101
Tests for the validity of the assumption that the underlying distribution of
life is exponential—Part 1.
- Describes various mathematical and graphical procedures.
- M
61-03109
- Nakaseko, K. (1959)**
Biol. Results Jap. antarct. Exped., (2) : 13 p.
On superfamily Liosphaericae (Radiolaria) from sediments in the sea near
Antarctica—On Radiolaria from sediments in the sea near Antarctica,
Part 1
- Ill. taxonomic descriptions.

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61-03110
- Hirano, M.** (1959)
Biol. Results Jap. antarct. Exped., (3) : 13 p.
Notes on some algae from the Antarctic collected by the Japanese Antarctic Research Expedition
- Ill. notes on various Cyanophyta, Chlorophyta and Chrysophyta.
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61-03111
- Hatai, K.** (1959)
Biol. Results Jap. antarct. Exped., (4) : 7 p.
A new rhynchonnelid (Brachiopoda) from Antarctica
- Ill. description of *Rhynchonella cornea*.
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61-03112
- Tokioka, T.** (1959)
Biol. Results Jap. antarct. Exped., (5) : 6 p.
Amaroucium erythraeum Michaelsen, a compound ascidian from the Cape Province
- Describes and ill. a single specimen from coast of Cape Town.
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Met. i Gidrol., 1958 (8) : 59-62
(Literature on meteorology and hydrology for 1957). *Ru*
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Vestn. Akad. Nauk S.S.S.R., (9) : 97-8
(Results of investigations of the Institute of Oceanology in the Pacific Ocean). *Ru*
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- Capurro, L. R. A.** (1958)*
Buenos Aires, 11 p.
Informe sobre las actividades en oceanografia fisica durante el año Geofisico Internacional 1957-58 (Information on activities of physical oceanography during the International Geophysical Year 1957-58)
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Norsk Hvalfangsttid., 49 (6) : 265-72
 Wave-riding dolphins: how do they do it? *En No*
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- Manitoba. Department of Mines & Natural Resources.**
Fisheries Branch (n.d. 1960?)
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 Annual report for the period ending March 31st, 1959
 Fisheries Branch summary on law enforcement, fish culture, research investigation activities for fiscal year ending 31 Mar. 1959.
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- Monroy, A. & M. L. Vittorelli** (1960)
Experientia, 16 (2) : 56-7
 On a glycoprotein of the sea urchin eggs and its changes following fertilization
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- Chalice, C. E. & G. A. Edwards** (1960)
Experientia, 16 (2) : 70-2
 The intercalated disc of the goldfish heart
 Electron photomicrographs of *Carassius auratus*; comparison of cellular fine structure with that of other vertebrates.
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Pubbl. Staz. zool. Napoli, 31 (2) : 265-307
Lampetra fluviatilis catturata in mare nel golfo di Gaeta (*Lampetra fluviatilis* caught in the Gulf of Gaeta)
 BA 35E (20) 57527. Five hundred and fifty lampreys were caught. This is the first report of such animals in the region.
- M
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- Postel, E.** (1959)
Doc. Trav. Coll. Abidjan-Dakar, (A/09) : 26 p.
 Connaissance du milieu marin—Biologie marine et evolution des pêches maritimes outre-mer (Knowledge of the marine environment—Marine biology and evolution of overseas marine fisheries)
 A review of the development of the overseas fisheries.
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- Eyries** (1959)
Doc. Trav. Coll. Abidjan-Dakar, (A/010) : 12 p.
 Connaissance du milieu marin—La prospection physico-chimique du milieu marin (Knowledge of the marine environment—Prospect of the physico-chemical marine environment)
 Briefly reviews the physico-chemical knowledge of the seas and the work being conducted by France in overseas territories.

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 Some new isopod parasites on fishes
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 Fishing methods for the Indian shad, *Hilsa ilisha* (Hamilton) in the Indian region
 BSEA 6 (5) 2792.
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 Diurnal variation of certain meteorological and oceanographic factors of Visakhapatnam
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Mammalia, 24 (3) : 422-30
 The status of seals (Pinnipedia) at Australian antarctic stations
- M
61-03218
- Anon. (1960)**
Atuagagdliutit, (7) : 14, 16
 De ugunstige vejrforhold generede fiskeriet i 1959 (The unfavourable
 atmospheric conditions interfered with fisheries in 1959)
 Greenland fisheries in 1959.

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61-03219
- Hasan, S. A.** (1960)
Ann. Mag. nat. Hist., 3 (27) : 103-12
 Some polychaetes from the Karachi coast
- List of spp., with notes, collected Mar.-Apr., 1959, from inter-tidal zone; records 11 additions to the known fauna.
- MF
61-03220
- Millar, R. H.** (1960)
Ann. Mag. nat. Hist., 3 (27) : 129-31
Molgula dolichentera, a new species of ascidian from eastern Nigeria
- Diagnosis and ill. description of specimens collected from raft panels on Bonny River, 11 Feb. 1958.
- M
61-03221
- Kabata, Z.** (1960)
Ann. Mag. nat. Hist., 3 (27) : 133-9
 On the specificity of *Lernaeocera* (Copepoda Parasitica)
- Discusses mainly ecology of *L. branchialis* hosts of juveniles commonly Pleuronectidae and Cyclopteridae; of adults spp. of *Gadus*. Area differences. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (138).
- M
61-03222
- Williamson, D. I.** (1960)
Ann. Mag. nat. Hist., 3 (27) : 141-4
 A remarkable zoea, attributed to the Majidae (Decapoda, Brachyura)
- Ill. description and discussion of specimen taken 10 May 1959 in NE Atlantic, plankton haul.
- M
61-03223
- Palmer, G.** (1960)
Ann. Mag. nat. Hist., 3 (27) : 149-51
 The first record of a frogfish (*Antennarius*) from Irish waters
- Descriptive note on prejuvenile specimen of *A. radiosus* taken off W. coast of Ireland in night plankton haul.
- FG
61-03224
- Steinitz, H. & A. Ben-Tuvia** (1960)
Ann. Mag. nat. Hist., 3 (27) : 161-75
 The cichlid fishes of the genus *Tristramella* Trewavas
- Ci 1942 Trewavas, E., 561406 and 61-02063. Revision of 3 spp. from waters of Jordan River, Lakes Huleh and Tiberias, and Damascus area.

Wheeler, A. C. (1960)M
61-03225*Ann. Mag. nat. Hist.*, 3 (27) : 177-81*Gobius capito* as a British fish

Purpose of this note is to record several new localities, S. Cornwall and Scilly, in which this fish has been found, and to attempt to clarify the very obscure literary evidence of the sp. in Britain. General notes on natural history are given, and also on characters of closely related spp.

Williams, F. (1960)M
61-03226*Ann. Mag. nat. Hist.*, 3 (27) : 183-92

On *Scomberomorus lineolatus* (C.V.) 1831, from British East African waters (Pisces, Scombridae)

Ci 1956 Williams, F. Identifies and describes important food fish from Zanzibar left in doubt in 1956 paper.

Kozicka, J. (1959)F
61-03227*Acta parasit. polon.*, 7 (1/12) : 1-72

Parasites of fishes of Druzno Lake (Parasitofauna of the biocoenosis of Druzno Lake. Part 8). Pl

HA 28 (1) 1a. 22 spp. were examined and found to be parasitized by protozoa, helminths, Hirudinea, molluscs and Crustacea.

Garrod, D. J. (1961)F
61-03228

CCTA/CSA, Hydrobio (IV) 61 (12), mimeo, 6 p.

Nécessité des recherches sur la dynamique biologique des espèces tropicales, surtout du "ningu" (*Labeo victorianus*) du Lac Victoria (Need of population dynamic studies of the tropical species, mainly "ningu", *Labeo victorianus*, of Lake Victoria)

Do 60-348me. Reviews development of fisheries and recommends research required for understanding the dynamic of population of the spp.

Golvan, Y. J. (1959)M
61-03229*Ann. Parasit. hum. comp.*, 34 (1/2) : 5-52

Le phylum des Acanthocephala. Deuxième note. La classe des Eoacanthocephala (Van Cleave, 1936) (The phylum of Acanthocephala. Second note. The order Eoacanthocephala, Van Cleave, 1936)

Co 60-4152. HA 28 (1) 10a. Revised classification of the class. A host-parasite list for the spp.

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61-03230

Ergens, R. (1959)

Čsl. Parasit., 6 (1) : 73-85

Nálezky dalších druhů rodu *Gyrodactylus* Nordmann (Monogenoidea) v ČSR (Discovery of some more species of the genus *Gyrodactylus* Nordmann (Monogenoidea) in Czechoslovakia). De

HA 28 (1) 29c. Reports on the finding of: *Gyrodactylus decorus* from *Alburnus alburnus*, *Rutilus rutilus* and *Scardinius erythrophthalmus*; *G. gobionum* from *Gobio gobio*; *Gyrodactylus laevis* from *Phoxinus phoxinus*; *G. longiradix* from *Acerina cernua*, *Perca fluviatilis* and *Lucioperca lucioperca*; *G. macronychus* from *Phoxinus phoxinus*; *G. nemachili* from *Nemacheilus barbatulus*; *G. wagneri aphyae* from *Phoxinus phoxinus*; *G. wagneri cernuae* from *Acerina cernua*; *G. wagneri lucii* from *Lucioperca lucioperca* and *G. parvicopula* from *Rutilus rutilus* and *Abramis brama*. The monogeneans are described in detail with ill.

F

61-03231

Ergens, R. (1959)

Čsl. Parasit., 6 (1) : 87-92

Nálezky dalších druhů rodu *Dactylogyrus* Diesing (Monogenoidea) v ČSR a vliv lokalisace na morfologické změny chitínových částí haptoru *Dactylogyrus hemiamphibothrium* (Discovery of some more species of the genus *Dactylogyrus* Diesing (Monogenoidea) in Czechoslovakia and the influence of the habitat on the morphological changes in *Dactylogyrus hemiamphibothrium*). De

HA 28 (1) 29d. Completing the list of trematodes found in fish in 1956-57, describes 4 more spp.: *Dactylogyrus chondrostomi* from *Chondrostoma nasus*; *D. minor* from *Alburnus alburnus*; *D. suecicus* from *Rutilus rutilus* and *D. nanus* from *R. rutilus* and *A. alburnus*. Also describes *D. hemiamphibothrium* found on the fins of *Acerina cernua*.

MF

61-03232

Walton, A. C. (1959)

J. Parasit., 45 (1) : 1-20

Some parasites and their chromosomes

HA 28 (1) 40a. Summarizes information on the chromosome numbers of a large number of parasites of different groups and comments on the taxonomic value of this data.

M

61-03233

Sarmiento, L. (1959)

J. Parasit., 45 (1) : 65-8

Description of *PARATRACTIS hystrix* (Diesing, 1851) gen. nov. (Nematoda: Atractidae) from *Podocnemis dumeriliana*

HA 28 (1) 40c. Redescribes *Ascaris hystrix* Diesing, 1851 (Nematoda) from a water turtle collected at Pucallpa, Peru.

M

Thomas, J. D. (1959)

61-03234

J. Parasit., 45 (1) : 95-113

Trematodes of Ghanaian sub-littoral fishes. 1. The family Monorchidae

HA 28 (1) 40h. Describes and figures five monorchid trematodes from marine sublittoral fish caught off the coast of Ghana. Four of these are new to science and *Lasiotocus longicaecum* from *Lethrinus atlanticus* constitutes a new host and geographical record; *Lasiotocus cynoglossi* n. sp. from *Cynoglossus goreensis*; *L. chaetodipteri* n. sp. from *Chaetodipterus lippei*; *Hurleytrema trachinoti* n. sp. from *Cynoglossus goreensis*.

M

Williams, H. H. (1959)

61-03235

Parasitology, 49 (1/2) : 39-53

The anatomy of *Köllikeria filicollis* (Rudolphi, 1819), Cobbold, 1860 (Trematoda: Digenea) showing that the sexes are not entirely separate as hitherto believed

HA 28 (1) 47b. Detailed an ill. redescription. Cysts from the epithelium inside the operculum of *Brama raii*.

M

Williams, H. H. (1959)

61-03236

Parasitology, 49 (1/2) : 54-69

The anatomy of *Phyllobothrium sinuosiceps* sp. nov. (Cestoda: Tetraphyllidae) from *Hexanchus griseus* (Gmelin) the six gilled shark

HA 28 (1) 47c.

F

Jain, S. L. (1959)

61-03237

Parasitology, 49 (1/2) : 153-68

Monogenea of Indian freshwater fishes. 8. *SPROSTONIA*, a new genus of freshwater Tetraonchinae, with the descriptions of four new species, from the gill filaments of fishes, from Lucknow

HA 28 (1) 47h. Co 59-7434. *S. indica* n. sp., genotype, was recovered from gills of *Eutropiichthys vacha*, *S. wallagonia* n. sp. from *Wallagonia attu*, *S. gomia* n. sp. from *E. vacha* and *S. asiatica* n. sp. from *Callichrous pabda*.

F

Erasmus, D. A. (1959)

61-03238

Parasitology, 49 (1/2) : 173-90

The migration of *Cercaria* X Baylis (Strigeida) within the fish intermediate host

HA 28 (1) 47j. Describes penetration from *Lymnaea stagnalis* into *Gasterosteus aculeatus*, and its subsequent migration through the tissues to the lens of the eye.

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Rees, G. (1959) 61-03239
Parasitology, 49 (1/2) : 191-209
DITRACHYBOTHRIIDIUM macrocephalum gen. nov., sp. nov., a cestode from some elasmobranch fishes

HA 28 (1) 47k. From *Raja fullonica*, *R. circularis* and *Scyliorhinus caniculus*.

F

Lucký, Z. (1959) 61-03240
Sborn. vys. Šk. zeměd. Oesn. Brno, 7 (1/3) : 353-77
 Příspěvek k poznání žabrohlístů jižní Moravy, 2 (Contribution to the knowledge of the trematodes in southern Moravia, 2). Ru De

HA 28 (1) 60d. Completes the list of trematodes from fish in south Moravia commenced in 1957. (See HA 26, No. 450c). Descriptions of *Dactylogyrus auriculatus* from *Abramis brama*, *D. borealis* from *Phoxinus phoxinus*, *D. difformis* from *Scardinius erythrophthalmus*, *D. hemiamphibothrium* from *Acerina cernua*, *D. malleus* from *Barbus barbus*, *D. minor* from *Alburnus alburnus*, *D. minutus* from *Cyprinus carpio*, *D. nybelini* from *Chondrostoma nasus*—this figures in the 1957 list under the provisional name of *D. chondrostomi*; *D. vranoviensis* from *Leuciscus cephalus*, *Gyrodactylus decorus* from *S. erythrophthalmus*, *G. longiradix* from *Acerina cernua*, *G. nemachili* from *Nemacheilus barbatulus*, *G. vimbi* from *Vimba vimba*, *G. wagneri cernuae* from *A. cernua*, *G. wagneri scardini* from *S. erythrophthalmus*.

F

Fahmy, M. A. M. & M. K. Selim (1959) 61-03241
Z. Parasitenk., 19 (1) : 3-13
 Studies on some trematode parasites of dogs in Egypt with special reference to the role played by fish in their transmission

HA 28 (1) 76a. Dogs fed experimentally on *Mugil capito* and *Tilapia nilotica* harboured *Echinochasmus liliputanus*, *Prohemistomum vivax*, *Heterophyes heterophyes*, *H. dispar*, *Haplorchis* spp., *Pygidiopsis genata* and *Stictodora sawakinensis*.

M

Schwartz, F. J. (1959) 61-03242
Conserv. Mag., May, repr., unpag. : 4 p.
 Confusing fishes of West Virginia. Part 2

Key for identification of centrarchid fish *Micropterus salmoides*, *M. dolomieu* and *M. punctulatus*. Issued also as: *Misc. Publ. Md Dep. Res. Educ.*

M

Schwartz, F. J. (1959) 61-03243
Conserv. Mag., September, repr., unpag.: 3 p.
 Confusing fishes of West Virginia. Third and final part

Co 61-03242. Ill. key for identifications of centrarchid fish *Ambloplites rupestris*, *Lepomis cyanellus* and *Chaenobrytus coronarius*. Issued also as: *Misc. Publ. Md Dep. Res. Educ.*

Schultz, L. P. et al. (1960)

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61-03244

Bul. U.S. nat. Mus., (202) : 438 p.

Fishes of the Marshall and Marianas Islands. Vol. 2. Families from Mullidae through Stromateidae

A catalogue containing keys to genera and spp. and description of spp. of the families Mullidae, Pomacentridae, Labridae, Acaridae, Cirrhitidae, Mugiloididae, Trichonotidae, Clinidae, Blenniidae, Brotulidae, Carapidae, Schindleriidae, Callionymidae, Scombridae, and Stromateidae.

Tollefson, R. et al. (1959)

MF
61-03245

182 p.

A summary of fishery statistics of the Pacific coast

Tabulated data compiled, incl. some previously unpublished, for landings, by spp., year, month, gear; W. coast of US and Canada prepared by consultant with assistance of state, interstate, national and international agencies concerned. Deals with salmonids, sturgeons, molluscs, crustaceans, herring, gadoids, pleuronectids, pilchard, albacore and rock fish.

Figueiredo, J. Mousinho (1960)

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61-03246

Bol. Pesca, 13 (66) : 29-37

Pescarias de baleia nas províncias africanas portuguesas (Whale fisheries in the Portuguese African provinces)

A review of whaling in Angola, Mozambique and S. Tomé with recommendations for future exploitations and biological research.

Rego, C. A. Figueiredo Salgueiro (1960)

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61-03247

Bol. Pesca, 13 (66) : 69-78

O estado actual da indústria de pesca na província ultramarina da Guiné e o seu provável incremento (Present status of the fishing industry in the overseas province of Guinea and its possible increment)

Co 60-1505. Review of the industry and recommendations for further exploratory study of the resources of the area.

Neves, A. Oliveira (1960)

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61-03248

Bol. Pesca, 13 (66) : 79-87

A pesca de atuns—Suas possibilidades em Angola (Tuna fisheries—Its possibilities in Angola)

A review of the fisheries and recommendations for biological investigation of *Neothunnus albacora*, *Parathunnus obesus* and *Katsuwonus pelamis*.

Devoluy, R. P. (1959)

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Industr. Engng Chem., 51 : 79A-80A

Corrosion prevention for marine equipment

CFA 12 (9) : 3.

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Nat. Fisherm., 40 (13) : 32
 Air curtain concentrates Maine herring
 CFA 12 (9) : 5.

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- INPFC** (1959)
 INPFC Doc. No. 317, mimeo, 2 p.
 Progress report salmon racial sampling—1959

This marks the fifth year of the sampling program for racial studies. Efforts have been made to sample the major red, chum and pink salmon stocks throughout their geographic range in the N. Pacific Ocean, Bering Sea and adjacent coastal areas.

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61-03252
- Anon.** (1960)
New Scient., 8 (208) : 1269
 Wind, rain and fish harvests

Note on article by G. Hempel (1960) in *Umschau*, (15) : 466, on effect of weather on fish catches.

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New Scient., 8 (208) : 1279
 Heavier-than-water submarines ?

Le 61-01539.

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- Anon.** (1960)
New Scient., 8 (212) : 1506
 A successor to the 'Discovery'

Note on proposed new British research vessel.

- F
61-03255
- Anon.** (1960)
New Scient., 8 (212) : 1509
 War on the coypu

Note on control in Britain of *Myocastor coypus*; work by E. A. Ellis reported to Mammal Society of British Isles on effect of browsing in opening up reedy waters.

- F
61-03256
- Anon.** (1960)
New Scient., 8 (212) : 1510
 Inland waterway from the Urals to the Channel?

Note, with map on ECE of UN scheme for European and Russian inland waterways network.

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New Scient., 8 (212) : 1530-2
 A plan for world science
- Article on report to UN by P. Auger, incl. sections on oceanography, water pollution, conservation, and documentation.
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61-03258
- Anon. (1960)**
New Scient., 8 (212) : 1544
 Alga selects isotopes
- Differential uptake of C-13 and C-12 from mixtures by *Chlorella*, reported by P. H. Abelson & T. C. Hoering, Geophysical Laboratory, Carnegie Institution of Washington.
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61-03259
- Anon. (1960)**
New Scient., 8 (212) : 1544
 Growth by polarized light
- Note on polanotropism, incl. growth by *Fucus*.
- M
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- Cochrane, N. J. (1960)**
New Scient., 8 (212) : 1549
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- Le 61-03253.
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Biochem. J., 78 : 352-9
 Comparative studies of 'bile salts'. 13. Bile acids of the leopard seal, *Hydrurga leptonyx*, and of two snakes of the genus *Bitis*
- Snake bile salts similar to Pinnepedia; data also for *Zalophys californianus*; study by paper chromatography and analytical and extraction methods.
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- Ci 61-03263. Incl. short ecological review of the copepod-ascidian complex.
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 A new grammicolepid fish from South Africa
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61-03265
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Ann. Mag. nat. Hist., Ser. 13, 3 : 247-51
 Echiuroids from the Canary Islands
- Describes material collected at Lanzarote, spring 1955, *Onchetostoma*, *Bonellia*, trochophore larvae.
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Salm. Trout Mag., (159) : 127-45
 The brown trout of Malham Tarn, Yorkshire
- Describes the biology of *Salmo trutta* and its fishery in a natural lake of 153 acres.
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61-03267
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- Reichenbach-Klinke, H.** (1960)
Allg. FischZtg., 85 (3) : 57
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- Co 60-0378. Observations on bacteria and virus infected cyprinoids.
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Allg. FischZtg., 85 (3) : 58-9
 Versuchsfänge in einigen Seen des Hochschwarzwaldes (Fishing tests in some lakes of the high Black Forest)
- Preliminary report on fish populations.
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- Reeskamp, G. A., Jr.** (1960)
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- Notes on general life history and adaptation to conditions in Netherlands New Guinea.

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Annotated bibliography on biology of American menhaden
Annotated references, in order of authors' names, to papers etc. published in or before 1957, and some in 1958, on the spp. of *Brevoortia* from N and S American waters; list of abbreviations of periodical titles; subject and spp. index.
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An annotated bibliography of menhaden
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Co 60-6357. Contains: 61-03276 and 61-03277.
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Systematic notes; zoogeographical remarks; spp. list with note of habitat etc. based on 'Galathea' collections 1951 and some other sources.
- Abbott, R. T. (1959)** M
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In 61-03275 : 203-6
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Spp. list, with some ill. based on collections by 'Galathea' in 1951.

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 Passamaquoddy fisheries investigations

Reports economic feasibility of tidal power project and oceanographic and biological studies to provide basis for forecasting effects of proposed power structure on fisheries.

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Trade News, 12 (8) : 11-3
 British Columbia's shrimp fishery

Briefly reviews the history and present status of fishery.

M
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Anon. (1960)
Trade News, 12 (8) : 24-5
 Fishery figures for December. Seafish: landed weight and landed value, May-Dec. 1958

Canadian statistics by coast, province and spp.; comparison of current and previous year.

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McCracken, F. D. (1960)
 Fisheries Research Board of Canada mimeo, 2 p.
 Research vessel 'A. T. Cameron'—Report for cruise No. 19

From 25 Feb. to 7 Mar. 1960. Area of operation: Sable Island. Purpose of cruise: determine occurrence of haddock in area NE of Sable Island during winter. Results: Negligible numbers of haddock were taken. Redfish predominated in catches at depths of about 100 fms and greater.

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Dias, M. A. (1960)
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En of orig. Pr. Reviews current studies and summarizes data for Angola and Mozambique areas.

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Anon. (1960)
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New Scient., 8 (210) : 1372

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Note on an article by K. W. Kenyon in *Oryx* concerning recent US Fish and Wildlife survey in the N. Pacific.

Evans, J. T. (1960)

MF
61-03285

New Scient., 8 (210) : 1379-82

The study of silt

Review of importance of silting of harbours etc. and of present studies, especially with photoelectric recorders.

Anon. (1960)

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New Scient., 8 (210) : 1390

Underwater television

Note on new camera system by Marconi and Siebe Gorman Ltd. for North of Scotland Hydro-electric Board to be used instead of divers for inspection of fish screens for salmon.

Anon. (1960)

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New Scient., 8 (210) : 1390

Watch on radioactivity in water

Note on continuous recording monitor for freshwaters, involving extraction of solids by ion exchange.

Anon. (1960)

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61-03288

New Scient., 8 (210) : 1405

Some topics at the Royal Society meeting on oceanography, 10-11 November

Do 60-308me. Notes from meeting under headings "New oceans?", "Lava welds ocean crack" (A. S. Laughton of NIO), "The age to catch fish" (J. A. Gulland), and "Luminescence the deep sea vogue" (J. A. Nicol).

Alpers, A. ()

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John Murray, 147 p.

A book of Dolphins

There are three parts; the first deals with the classical accounts of dolphins and their association with men. Incl. a number of the Greek and Roman stories, and quotations from the writings of Aristotle, Pliny and Oppian. The second part is devoted to dolphin biology, especially those aspects in which advances in knowledge have resulted from studies of captive animals. The final section opens with some Polynesian tales reminiscent of the Greek stories. These are followed by detailed accounts of Pelorus Jack, the famous Risso's dolphin which flourished for more than 20 years in New Zealand waters, and of the bottle-nosed dolphin which delighted the inhabitants of Opononi in the North Island for some months before she died in Mar. 1956.

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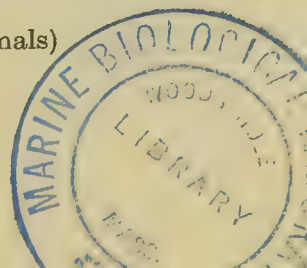
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 Forsøk med sildetrål i Nordsjøen 1958 med forsøkstråleren M/S 'Thor Iversen' (Experiment with herring trawl in the North Sea 1958 with experimental trawler M/S 'Thor Iversen')</p> <p style="padding-left: 40px;">Diary with notes on catches and fishing conditions.</p> | <p style="text-align: center;">M</p> <p>61-03414</p> |
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 Forsøk med flytetral (partral) på Egersund-feltet høsten 1958 (Experiment with floating trawl on Egersund fishing grounds during autumn 1958)</p> <p style="padding-left: 40px;">Extracts from fishing log on catches and notes on fishing conditions.</p> | <p style="text-align: center;">M</p> <p>61-03415</p> |

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Results of the experiments with notes on the fat and small herring occurrence during the autumn in the waters of the north of Norway.

- M
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Aarsberetn. Norg. Fisk., 1958 (9) : 32-7

Forsøk med feitsildnot av nylon (Experiment with fat herring seine made of nylon)

Extracts from fishing log with notes on catches.

- M
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- Anon.** (1959)
Aarsberetn. Norg. Fisk., 1958 (9) : 38-42

Fiske med notredskaper under lofotfisket i 1958 (Fishery with seining gear during Lofoten fishery in 1958)

Seine catches, reaction of fish in respect of seine and notes on dimensions of seines used.

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- Bostrøm, O.** (1959)
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Distribution of cod during the fishery season in 1958.

- M
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Trålforsøk kombinert med leting etter sild på bankene utenfor Helgeland og Trøndelag i tiden 17. april—14. mai 1958 (Trawling experiment, combined with search for herring on the banks off Helgeland and Trøndelag during 17 April to 14 May 1958)

Extracts from fishing log and short review of occurrence of herring and trawling possibilities on the banks.

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- Tjemsland, J.** (1959)
Aarsberetn. Norg. Fisk., 1958 (9) : 52-3

Forsøksfiske etter kveite med M/S 'Thor Iversen' i tida 12. januar—20. februar 1958 (Experimental fishing for halibut with M/S 'Thor Iversen' during 12 January to 20 February 1958)

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 Forsøksfiske etter kveite med M/S 'Thor Iversen' 2.-19. september 1958 (Experimental fishing for halibut with M/S 'Thor Iversen' 2 to 19 September 1958)
 Extracts from fishing log with notes on catches in Bear Island—Spitsbergen waters.
- M
61-03423
- Frøland, A.** (1959)
Aarsberetn. Norg. Fisk., 1958 (9) : 58-62
 Leiting etter nye kveitefelt i Davisstredet sommeren 1958 (Search for new halibut grounds in the Davis Strait during the summer 1958)
 Data on sea water temperatures and results of experimental fishing.
- M
61-03424
- Anon.** (1959)
Aarsberetn. Norg. Fisk., 1958 (9) : 63-4
 Forsøk med størjenot av nylon (Experiment with nylon tuna seine)
 Results of the experiment with notes on the handling of the gear and catches.
- M
61-03425
- Anon.** (1959)
Aarsberetn. Norg. Fisk., 1958 (9) : 65-7
 Leiting etter størje med fly i sesongen 1958 (Search for tuna with airplane during the season of 1958)
 Extracts from journal on sight of tunas.
- M
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Aarsberetn. Norg. Fisk., 1958 (9) : 68-70
 Forsøksfiske med liner på Bjørnøfjeldet og bankene utenfor Finnmark med M/S 'Thor Iversen' 1958 (Experimental fishing with long lines on the Bear Island grounds and on the banks off Finnmark with 'M/S Thor Iversen' 1958)
 Extracts from diary of the trip with emphasis on catch.
- MF
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Aarsberetn. Norg. Fisk., 1958 (9) : 71-6
 Forsøksfiske etter ål i Nord-Norge høsten 1958 (Experimental fishing for eel in north Norway during autumn 1958)
 Notes on catches with trap nets and comparison of traps of cotton and nylon.
- M
61-03428
- Halås, M.** (1959)
Aarsberetn. Norg. Fisk., 1958 (9) : 77-9
 Forsøk med torskeruser av kuralontråd (vinilon) (Experiments with cod trap nets made of kuralon—vinilon)
 Notes on the properties and use of kuralon for trap nets.

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Halmø, K. (1959)

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Aarsberetn. Norg. Fisk., 1958 (9) : 80-2

Lysreflekterende stoff for merking av fiskeredskaper (Light reflecting material for marking of fishing gear)

Results of the test of reflecting materials on buoys and float of fishing gear and its advantages for fishery.

France. Institute Scientifique et Technique des Pêches Maritimes (1959)

M
61-03430

Sci. Pêche, (75) : 4 p.

La pêche au chalut en Mauritanie (The trawl fishery in Mauritania)

Chart of fishing areas, fishing season, sizes of catches, depths; capture of *Merluccius*, *Dentex*, *Sparidae*, *Solea*, *Psettodes* and other spp.

Germany. Federal Republic. Bundesministerium für Ernährung, Landwirtschaft und Forsten (1960)

MF
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Inform. Fischwirtsch. Auslandes, 10 (3) : 57 p.

Monthly compilation of press releases, and extracts and digests from periodicals of information relating to all aspects of fisheries of all countries.

FAO/NERO (1960)

MF
61-03432

FAO in the N.E., 2 (2) : 38 p.

Contains section "Fisheries notes" concerning activities of FAO and governments in this region.

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VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-241me to 61-270me

- | | |
|---|----------------|
| Symposium on the physiology and ultra structure of <i>Hydra</i> and of some Coelenterates. 29/3/61
Coral Gables, Fla. 5 days | M
61-241me |
| Consejo Superior de Investigaciones Científicas Sección de Petrografía Sedimentaria. 16/10/61
Seville, Spain. 6 days
Meeting of the Spanish group on sedimentology | M
61-242me |
| IAEA. 19/3/62
Monaco. 12 days
2nd Meeting of the panel on the legal implications of disposal of radioactive waste into the sea | MF
61-243me |
| FAO. 6/8/62
Rome, Italy. 5 days
New advisory committee on marine resources research | M
61-244me |
| UNESCO. 16/10/61
N. Delhi. 5 days
8th Session of the international advisory committee on research in natural sciences | MF
61-245me |
| Germany. Federal Republic. Bundesministerium für Ernährung, Landwirtschaft und Forsten. 2/2/62
Berlin. 10 days
2nd International agricultural film competition

32 countries enter the competition with 87 films on various subjects under research, instructions, advisory work, public relations and general propaganda. Incl. films on fisheries. | MF
61-246me |
| Botanical Society of the British Isles. 28/4/62
London, U.K. 1 day
Annual general meeting

Meeting of members of the Society. | G
61-247me |

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Geological Society of America *et al.* 2/11/61 G
61-248me
Cincinnati, Ohio, U.S.A. 3 days
Annual meetings

Incl. scientific sessions on economic geology; engineering geology; principles of paleoecology; mineralogy; coal geology; hydrogeology; inorganic and organic geochemistry; and other selected subjects.

Society of Naval Architects and Marine Engineers. 15/11/61 M
61-249me
New York, N.Y., U.S.A. 4 days
Annual meeting

WMO, Commission for Synoptic Meteorology. 9/1/62 G
61-250me
Toronto, Canada. 11 days
Meeting of the working group on code problems

IMCO. 20/2/62 M
61-251me
London? U.K. 4 days
6th Session of the Council

Amendment to 61-217me.

INPFC. 7/3/62 M
61-252me
Juneau, Alaska. 2 days
Meeting

FAO. 26/3/62 G
61-253me
Rome, Italy. 3 days
1st Session of the preparatory committee of the 1963 world food Congress

ICES. 16/4/62 M
61-254me
Gothenburg, Sweden. 2 days
Meeting of the Baltic Sea oceanographic group

Institute of Marine Engineers. 7/5/62 M
61-255me
London, U.K. 6 days
International conference of marine engineers

IHB. 8/5/62 M
61-256me
Monte Carlo, Monaco. 1 day
8th International hydrographic conference

Amendment to 61-151me.

MEETINGS

- | | |
|---|---------------------------------|
| <p>American Fisheries Society, Northeast Division. 13/5/62
 New York, U.S.A. 4 days
 Annual meeting</p> | <p>MF
 61-257me</p> |
| <p>European Federation of Chemical Engineering. 31/5/62
 Athens, Greece. 4 days
 European symposium on freshwater from the sea

 39th event. Amendment to 61-167me.</p> | <p>M
 61-258me</p> |
| <p>International Federation of National Societies of Parasitologists (provisional). May 1962
 Warsaw, Poland.
 Proposed preparatory meeting of representatives of national constituents (15 societies)</p> | <p>61-259me</p> |
| <p>Washington. State University. 18/6/62
 Friday Harbor, Wash., U.S.A. 69 days
 Summer courses, in two terms, in marine algology, oceanographic meteorology, advanced zooplankton ecology, marine invertebrate zoology, and marine mycology

 NSF funds available for graduate support.</p> | <p>M
 61-260me</p> |
| <p>South American Congress of Zoology. July 1962
 Sao Paulo, Brazil.
 2nd Congress</p> | <p>MF
 61-261me</p> |
| <p>Water Pollution Control Federation. 8/10/62
 Toronto, Canada. 4 days
 35th Annual meeting</p> | <p>MF
 61-262me</p> |
| <p>FAO. 18/8/62
 U.S.S.R. 42 days
 Seminar and study tour on gear technology</p> | <p>MF
 61-263me</p> |
| <p>IUGG. last week Aug. 1962
 Berkeley, Calif., U.S.A.
 Symposium on oceanographic instrumentation</p> | <p>M
 61-264me</p> |

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

Kansas. State University. 4/9/62 G
61-265me
Lawrence, Kansas, U.S.A. 3 days
International conference on taxonomic biochemistry, physiology and serology

Purpose of conference is to assemble biological scientists who are making comparisons of organisms at the molecular level and who are interested in the taxonomic and evolutionary implications of their researches.

ICES. 28/9/62 M
61-266me
Copenhagen, Denmark. 2 days
Symposium on problems in the exploitation and regulation of fisheries for Crustacea

Amendment to 61-233me.

IAL. 15/10/62 F
61-267me
Bratislava, Czechoslovakia. 6 days
7th Annual meeting of the Arbeitsgemeinschaft Donauforschung

Operations Research Society of America. Nov. 1962 G
61-268me
Philadelphia, Pa., U.S.A.
22nd National meeting

INPFC. 12/11/62 MF
61-269me
Seattle, Wash., U.S.A. 6 days
9th Annual meeting

American Society of Zoologists, Division of Comparative Physiology. 1962 M
61-270me
U.S.A.
Symposium on echinoderm physiology
(Organized by Prof. R. A. Boolotian.)

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Effektivnost raboty rybovodnykh savodov Sakhalinskoi oblasti (The effectiveness of the work of fish-cultural establishments in the Sakhalin region)

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Transl. Ser. Fish. Res. Bd Can., (212) : 4 p.

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En 1950 Gerbilskii, N. L. Account of spawning time and place characteristics of each group.

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En 59-2777 UL., The method described for studying natural population of the *Oncorhynchus* spp. involves counts of fry and of predatory fish, mass examination of stomach contents of predators, study of seasonal changes in their composition, calculation of food consumption of predators under prevailing temperature conditions, and direct observations behaviour of predators and their prey.

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En 60-7323. CR 60-7324. Size and growth, scale pattern, movements.

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- En* 28-2157BO. Experiments at Sakhalin hatcheries to measure sensitivity of developing egg to handling.
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- Smirnov, A. I.** (Foerster, R. E. Transl.) (1959)
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- En* 59-2627UL. Ci 61-03720. Experiments at Sakhalin hatcheries.
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- En* 1951 Gerbilskii, N. L. Fecundity, various ecological differences; general consideration of meaning and significance of "biological groups", "bio-ecological groups" and "elementary population".
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- En* 1952 Wuhrmann, K. General and detailed consideration of problem of standardization of toxicity tests for use in management of stocks in running polluted waters; special reference to experiments with *Squalius cephalus* and to *Phoxinus* as a test spp.

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- En* 584308. Describes 'Vityaz' material, 34 spp. two of which are new.
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- En* 61-03725.
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- Klust, G. & H. Mann** (1959)
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Table of catch statistics for 1955-57. Notes on fisheries for *Scomberomonus commersoni*, *Caranx*, sea perches (*Lathrinus*, *Lutjanus*, *Serranus*, *Nemipterus*), sardines (*Harengula* and *Dussumeria*), and *Rastrelliger*, *Gazza*, *Leiognathus*, *Stolephorus*, *Engraulis*. Composition of fishing community; craft and gears used.

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Gen. Syst., 4 : 247 p.

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Incl. note by T. J. Job on possibilities of fisheries development in Middle and Near East.

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- Experiments with *Alcyonidium* and *Flustrellidra* spp. and extracts of *Fucus* and *Ascomyllum* spp.
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- Crisp, D. J. (1960)**
Nature, Lond., 188 (4757) : 1208-9
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- Observations on *Balanus balanoides* on transparent plates and subjected to lateral pressures.

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Crustaceana, 2 (1) : 1-5
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Describes sp. of Hippolytidae incl. in Caridea as *Systellaspis debilis*, Oplophoridae, by Boone 1930. Specimens taken by 'Albatross' off N. Carolina and near Yucatan.
- Costlow, J. D. & C. G. Bookhout** (1961) M
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Crustaceana, 2 (1) : 6-15
The larval development of *Eurypanopeus depressus* (Smith) under laboratory conditions. De
- Blanchard, E. R., R. A. Lewin & D. E. Philpott** (1961) M
61-03802
Crustaceana, 2 (1) : 16-20
Fine structure of sperm tails of isopods. Fr
Study of *Cyathura*, *Idotea* and *Oniscus* spp.
- Pike, R. B. & D. I. Williamson** (1961) M
61-03803
Crustaceana, 2 (1) : 21-5
Larval variation in *Philocheras bispinosus* (Hailstone) (Decapoda, Crangonidae). De
Describes laboratory study.
- Kinne, O.** (1961) M
61-03804
Crustaceana, 2 (1) : 26-36
Growth, molting frequency, heart beat, number of eggs, and incubation time in *Gammarus zaddachi* exposed to different environments. De
Experimental study.
- Yanagimachi, R.** (1961) M
61-03805
Crustaceana, 2 (1) : 37-9
The use of cetyl alcohol in the rearing of the rhizocaphalan larvae. De
Experiments with *Bopyrus*.

M
61-03806**Bouligand, Y. (1961)**
Crustaceana, 2 (1) : 40-52

Notes sur la famille des Lamippidae, 2e partie (Notes on the family Lamippidae, 2nd part). En

Describes type sp. *Lamippella faurei* parasitic in octorals *Alcyonium*, *Eunicella* and *Parerythropodium*. Also 3 spp. of *Lamippe* shown all to belong to 1 sp. *Lamippina aciculifera*.M
61-03807**Dechancé, M. (1961)**
Crustaceana, 2 (1) : 53-67Sur la morphologie externe des larves de pagurides. 1. *Catapaguroides timidus* (Roux) (On the external morphology of pagurid larvae. 1. *Catapaguroides timidus* (Roux)). En

Four zoea stages of this hermit crab are described and ill.

M
61-03808**Monod, T. (1961)**
Crustaceana, 2 (1) : 68-77Sur un isopode asellote du genre *Bagatus* recueilli sur un poisson du Sénégal (On an asellote isopod of the genus *Bagatus* found on a fish from Senegal). EnDescribes *B. ichthyoxenos* n. sp. from branchial cavity of pediculate fish, and gives check list of known spp. of the genus.M
61-03809**Fisher, L. R. & E. H. Goldie (1961)**
Crustaceana, 2 (1) : 78-9

New records for two deep-sea decapods

Ci 59-3092. First records from Atlantic of pasiphaeid *Eupasiphë gilesi*, taken near Madeira, 'Discovery II', 5 May 1958, and from stomachs of long-line caught *Aphanopus carbo*; and of *Systellaspis cristata*, mid-water trawl, B. of Biscay, 18 Oct. 1959.F
61-03810**Thakur, M. K. (1961)**
Crustaceana, 2 (1) : 80A note on cross-breeding between *Caridina weberi* var. *sumatrensis* and *C. rajadhari*

Experimental hybridization of these fresh-water prawns from localities around Bombay.

M
61-03811**Manning, R. B. (1961).**
Crustaceana, 2 (1) : 81-2Observations on *Microprosthema semilaeve* (Von Martens) (Crustacea, Decapoda, Stenopodidae) from FloridaIssued also as: *Contr. Mar. Lab. Univ. Miami*, (284). Coloration, behaviour measurements.

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Crustaceana, 2 (1) : 83
 Recent work on marine boring organisms
 Re 571104 and 60-6299.
- Bandhukul, S.** (n.d. 1960) M
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 Mimeo, 9 p.
 Tagging of *Rastrelliger* in Thailand
 Do 60-196me. Describes and ill. methods of tagging *R. neglectus* using live boats to hold fish from stake nets, and flat dart tags. Notes on tag loss and tagging mortality. Numbers, sizes, times and places of liberation of 1,168 fish and recapture of 89 of them by various gears during the same year, 1960. Map attached.
- CCTA/CSA. Symposium on Thunnidae, Dakar, 12-17 December 1960** (1960) M
61-03814
 L (60) 226, mimeo, 10 p.
 Recommendations. Ref. L (60) 23 and addendum. *Fr*
 Lists participants and observers, topics discussed and summarizes recommendations made by the symposium.
- UNESCO. General Conference. Eleventh Session. Programme Commission. Paris, 14 Nov.-13 Dec. 1960** (1960) MF
61-03815
 11C/PRG/17, mimeo, 15 p.
 Item 17.2.1 of the agenda. Report of the Working Party on the report on the survey of the main trends of inquiry in the field of the natural sciences and recommendations for future action, including the question of preparing a draft agreement on international scientific and technical co-operation
 Do 60-265me.
- Auger, P.** (1960) MF
61-03816
 UNESCO/NS/ES/19, mimeo, 445 p.
 Survey on the main trends of inquiry in the field of the natural sciences, the dissemination of scientific knowledge and the application of such knowledge for peaceful ends
 Contains sections on oceanography, fisheries research, hydrology, water pollution, scientific documentation, terminology and information services.
- ECOSOC (UN). Thirtieth Session. Agenda Item 3(e)** (1960) M
61-03817
 E/3362/Corr. 1, mimeo, 2 p.
 General review of the development and co-ordination of the economic, social and human rights programmes and activities of the United Nations and the specialized agencies as a whole. Co-ordination of the results of scientific research. Corrigendum
 Ad 61-03816. Amends section on earth and space sciences.

- ECOSOC (UN). Thirtieth Session. Agenda Item 3(e) (1960)** M
61-03818
E/3362/Add. 1, mimeo, 10 p.

Co-ordination of the results of scientific research. Recommendations of the survey on the main trends of research in the natural sciences, the dissemination of scientific knowledge and the application of such knowledge to peaceful ends. Addendum

Ad 61-03816.

- Folsom, T. R. & G. J. Mohanrao (1960)** M
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Nature, Lond., 188 (4755) : 979-82

Trend of caesium-137 in the effluent of a large city

Do 60-027me. Reports two-year monitoring at sewage treatment plant of a coastal city, US, W. coast, discharging into ocean.

- Nordmark, J. (1960)** M
61-03820
Nature, Lond., 188 (4755) : 1009-10

Perception of distance in animal echo-location

Reviews and reports experiments with bats but refers also to dolphins.

- Hicks, B. L. (1960)** MF
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Nature, Lond., 188 (4755) : 1016-7

Generation of water waves by the wind

Analysis of data of 273 measurements of wave energy, observed through octave-wide filters centred at 0.75, 1.5, 3, 6 and 12 c.p.s., for various combinations of average wind speed and average fetch.

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Nature, Lond., 188 (4755) : 1030-1

In vitro uptake of iodine-131 by tissues of rainbow trout

Ci 582399 and 61-01331. Only thyroid follicles in lower jaw concentrated I-131 in *Salmo gairdnerii*.

- Tipnis, H. P. & R. Pratt (1960)** F
61-03823
Nature, Lond., 188 (4755) : 1031-2

Protein and lipid content of *Chlorella vulgaris* in relation to light

- Loewenstein, W. R. (1960)** M
61-03824
Nature, Lond., 188 (4755) : 1034-5

Mechanisms of nerve impulse initiation in a pressure receptor (Lorenzinian ampulla)

Experiments with isolated ampullae of *Mustellus canis*.

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- Boney, A. D. & E. D. S. Corner** (1960)
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 A possible function of phycoerythrin in intertidal red algae
- Co 59-6624. Experiments with lower mid-littoral shade-loving *Plumaria elegans*.
- M
61-03826
- Volodin, V. M.** (Canada. Bureau for Translations, Transl.) (1960)
Transl. Ser. Fish. Res. Bd Can., (252) : 13 p.
 Embryonic development of the autumn Baltic herring and their oxygen requirement during the course of development
- En* 1956 Volodin, V. M. of orig. Ru. Characteristics of spawning and eggs of *Clupea harengus membras*. Comparison of O₂ consumption with other fish, especially Acipenseridae, Cyprinidae, Percidae and Salmonidae.
- FG
61-03827
- Svårdson, G.** (Canada. Bureau for Translations, Transl.) (1959)
Transl. Ser. Fish. Res. Bd Can., (126) : 33 p.
 Studies on the relationship between sexual maturation and growth in *Lebistes*
- En* 1943 Svårdson, G. of orig. De. Account of experiments to determine the effect of sexual maturity on growth of *Lebistes reticulatus*.
- F
61-03828
- Berezina, N. A.** (Canada. Bureau for Translations, Transl.) (1960)
Transl. Ser. Fish. Res. Bd Can., (256) : 16 p.
 The use of insecticides to control predaceous insects which are enemies of fish
- En* 561407. Predation and food competition with *Coregonus* and *Cyprinus* fry in ponds by Coleoptera, Hemiptera and Odonata. Experiments with DDT, hexachloran and kerosenefilm; effects studies also on carp fry and on *Daphnia*.
- MF
61-03829
- Ross, J. A.** (1959)
Spec. Sci. Rep. U.S. Fish Wildl. Serv., (332) : 1-9
 Mycobacteria in adult salmonid fishes returning to Federal hatcheries in Washington, Oregon and California
- Degree of incidence of acid-fast bacillus infections in adult *Oncorhynchus* was determined. The disease was shown to be widely distributed in the area examined.
- MF
61-03830
- Earp, B. J.** (1959)
Spec. Sci. Rep. U.S. Fish Wildl. Serv., (332) : 10-2
 Mycobacteria in adult salmonid fishes returning to State hatcheries in Washington
- Oncorhynchus tshawytscha* and *O. kisutch* were examined for the presence of acid-fast bacteria.

- Westgard, R. L. (1959)** MF
61-03831
Spec. Sci. Rep. U.S. Fish Wildl. Serv., (332) : 13-7
Addendum. A procedure for the detection of acid-fast bacteria in fish: a comparative study of digest-concentrate vs. smear technique.
Ad 61-03830. Method developed to detect the presence of acid-fast organisms and to determine their relative number in fish tissue.
- Wood, J. W. (1959)** MF
61-03832
Spec. Sci. Rep. U.S. Fish Wildl. Serv., (332) : 18-33
A survey of tuberculosis in Pacific salmon and steelhead trout in Oregon streams in 1957
Fish for examination collected from the commercial gill-net fishery landings on the Columbia River, at hatchery egg-collecting stations, and from fish of natural origin on the spawning grounds. *Oncorhynchus tshawytscha*, *O. kisutch*, *O. nerka*, *Salmo gairdnerii*.
- USFWS (1959)** MF
61-03833
Spec. Sci. Rep. U.S. Fish Wildl. Serv., (332): 33 p.
Contains: 61-03829 to 61-03832.
- Atkins, H. J. B. (Ed.) (1959)** G
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Oxford, Blackwell Scientific, 183 p.
Tools of biological research
Concise accounts of newer experimental techniques employed in zoological and medical research, with critical assessment of some recent results obtained by them.
- Arbuzova, K. S. & V. V. Patrikeev (1960)** M
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Dokl. Akad. Nauk S.S.S.R., 132 (3) : 693-5
Vlianie obrastaniia balianusami na korroziiu nerzhavieiushchei stali v Chernom more (The role of *Balanus* in the corrosion of spotless steel in the Black Sea)
- Tarasov, N. I. & I. B. Ulanovskii (1960)** M
61-03836
Dokl. Akad. Nauk S.S.S.R., 132 (3) : 696-9
Vlianie morskikh zheludei na korroziiu uglerodistoi stali (The effect of acorn barnacles on the corrosion of carbonaceous steel)
- Buznikov, G. A. (1960)** M
61-03837
Dokl. Akad. Nauk S.S.S.R., 132 (3) : 723-5
Kholinesteraza v embriogeneze golozhabernykh molliuskov (Cholinesterase in the embryogenesis of Nudibranchiata)

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61-03838
Malmö, Ab. Framtiden, 96 p.
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- David Geddes & Son Ltd. (Publ.) (1960)** M
61-03839
London, 35 p.
Whale oil and sperm oil. Main catch reports season 1959/60, 1960/61 and world production

Reports 1959/60 season's catches for Norway, Britain, Holland, Argentina, USSR and Japan. Incl. final catch reports and estimated world productions since 1930/31 season.
- Millett, R. J. & E. J. Wilson (1959)*** MF
61-03840
London, H.M.S.O.
List of unclassified reports and papers published by staff of the Isotope Division since 1950
- Muncy, R. J. (1960)** MF
61-03841
Chesapeake Sci., 1 (2) : 96–102
A study of the comparative efficiency between nylon and linen gillnets

Ci 28-4256BO. Issued also as: *Contr. Chesapeake biol. Lab.*, (147). Numbers, lengths and weights of comparable catches of 3 *Alosa* spp. in field tests of two types of nets of a range of mesh sizes.
- Mansueti, R. J. (1960)** F
61-03842
Chesapeake Sci., 1 (2) : 103–9
Selection of body site for scale samples in the white perch, *Roccus americanus*

Issued also as: *Contr. Chesapeake biol. Lab.*, (148). Scales from 13 areas of body studied to ascertain variability in calculated standard length at formation of first annulus. Area above lateral line between spinous and soft dorsal fin selected as sample site in study of population of Patuxent River, Maryland.
- Cargo, D. G. (1960)** MF
61-03843
Chesapeake Sci., 1 (2) : 110
A megalops of the blue crab, *Callinectes sapidus*, in the Patuxent River, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (149). Record extends northward intrusion of this form in Chesapeake Bay 65 miles.

- Mansueti, R. J.** (1960) MF
61-03844
Chesapeake Sci., 1 (2) : 111-3
 An unusually large pugheaded striped bass, *Roccus saxatilis*, from Chesapeake Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (150). Six-year-old male exceeds previous size records. Literature is reviewed and factors that induce pugheadedness, believed due to environment and heredity, and not mechanical injury, are discussed briefly.

- Pfützenmeyer, H. T.** (1960) M
61-03845
Chesapeake Sci., 1 (2) : 114-5
 Notes on the nudibranch, *Elysia chlorotica*, from Chesapeake Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (151). Southward extension of reported former range which was Massachusetts to New Jersey. Brief discussion of ecological data and activity.

- Taylor, M. & R. J. Mansueti** (1960) M
61-03846
Chesapeake Sci., 1 (2) : 115-6
 Sounds produced by very young crevalle jack, *Caranx hippos*, from the Maryland seaside

Issued also as: *Contr. Chesapeake biol. Lab.*, (152). Dissection revealed well-developed upper and lower pharyngeal teeth indicating that burst of rapid, short, rasping croaks were produced as in the adults, upon being landed in a beach seine.

- Schwartz, F. J.** (1960) M
61-03847
Chesapeake Sci., 1 (2) : 116-7
 The barnacle, *Platylepas hexastylus*, encrusting a green turtle, *Chelonia mydas mydas*, from Chincoteague Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (153). First record of *Chelonia mydas mydas* in this bay.

- Mansueti, R. J.** (1960) M
61-03848
Chesapeake Sci., 1 (2) : 117-8
 The occurrence of the rough sead, *Trachurus lathami*, in Chesapeake Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (154). Recorded for first time. Captured in trawl at 60 feet, 21 Jul. 1958.

- Cargo, D. G.** (1960) F
61-03849
Chesapeake Sci., 1 (2) : 119-20
 Predation of eggs of the spotted salamander, *Ambystoma maculatum*, by the leech, *Macrobdella decora*

Issued also as: *Contr. Chesapeake biol. Lab.*, (155). Such predation ill. by photograph for first time in a small coastal plain pond in Maryland.

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61-03850
Chesapeake Sci., 1 (2) : 120-2
 Organ-body weight relationship in the toadfish, *Opsanus tau*
 Issued also as: *Contr. Chesapeake biol. Lab.*, (157). Correlations and prediction equations for heart, liver, spleen, gut, brain and eye weight in terms of total body weight.
- Schwartz, F. J.** (1960) M
61-03851
Chesapeake Sci., 1 (2) : 123-4
 An unusual winter survival of a young spadefish *Chaetodipterus faber*
 Issued also as: *Contr. Chesapeake biol. Lab.*, (159). A young-of-the-year was found to survive low winter temperatures in shallow tide-water a few feet from Chesapeake Bay, Calvert County, Maryland.
- Wilber, C. G. & P. F. Robinson** (1960) M
61-03852
Chesapeake Sci., 1 (2) : 122-3
 The correlation of length, weight and girth in the toadfish, *Opsanus tau*
 Issued also as: *Contr. Chesapeake biol. Lab.*, (158). Very high correlations of length, girth and weight make these dimensions interchangeable for comparative purposes using linear, not allometric, equations.
- Schwartz, F. J.** (1960) M
61-03853
Chesapeake Sci., 1 (2) : 124-5
 Comments on the smooth dogfish, *Mustelus canis*, from Chesapeake Bay, Maryland
 Issued also as: *Contr. Chesapeake biol. Lab.*, (160). Five recent distributional records presented from widely separated localities.
- Buesa Mas, R. J.** (1960) M
61-03854
Contr. Cent. Invest. pesq., Cuba, (11) : 30 p.
 Pesca exploratoria de la langosta con nasas, al sur de Camagüey, Cuba (Exploratory fishing for the spiny lobster with traps, south of Camagüey, Cuba)
 Catches of *Panulirus argus*, tagging, hydrographic conditions; recommendations for future work and development.
- Eipper, A. W.** (1960) F
61-03855
Cornell Ext. Bull., (1036) : 3-31
 Managing farm ponds for trout production
 Publication discusses factors to consider in deciding whether or not to stock trout, design and construction features particularly valuable in trout ponds, results that can be expected from a trout pond, where and how to obtain trout for a farm pond, management practices for obtaining the most trout fishing from your pond.

M

Russell, F. S. (1961)

61-03856

J. Mar. biol. Ass. U.K., 40 : 1-3On a new deep-water *Trachymedusa*

Colobonema apicatum n. sp. described from 80 specimens taken by 'Discovery II' in N. Atlantic in Aug.-Sep. 1959.

M

Corner, E. D. S. (1961)

61-03857

J. Mar. biol. Ass. U.K., 40 : 5-16

On the nutrition and metabolism of zooplankton. 1. Preliminary observations on the feeding of the marine copepod, *Calanus helgolandicus* (Claus)

Measurements of quantity and type of food assimilated by adult females in summer months under laboratory conditions with circulatory natural sea water. Preferential selection of diet.

M

Southward, A. J. (1961)

61-03858

J. Mar. biol. Ass. U.K., 40 : 17-35

The distribution of some plankton animals in the English Channel and western approaches. 1. Samples taken with stramin nets in 1955 and 1957

Previous plankton work at Plymouth is reviewed briefly, and limitations of stramin ring trawl as a quantitative sampler discussed. Distribution of certain "indicator" spp. caught in haul of 2 and 1 m ring trawl described in comparison with regular 2 m hauls taken same years at two stations near Plymouth. Results support previous suggestions that "western" water at Plymouth is derived from a region to the south of Ireland. Apparent northward spread of warm-water copepod *Euchaeta hebes* during past 50 years may be connected with rise in sea temperature.

M

Holliday, F. G. T. & J. H. S. Blaxter (1961)

61-03859

J. Mar. biol. Ass. U.K., 40 : 37-48

The effects of salinity on herring after metamorphosis

Determinations of changes in weight and blood concentration—by measurement of the freezing-point—when transferred from one salinity to another. The importance of damage to the skin for survival is discussed in relation to tagging experiments. Results also discussed in relation to evolution of herring. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (148).

M

Bagenal, T. B. (1961)

61-03860

J. Mar. biol. Ass. U.K., 40 : 49-57

The long rough dabs of the Clyde Sea area

Biometry of Clyde population studied and compared with descriptions of the European race of *Hippoglossoides platessoides* given by Norman 1934. Scale counts, fin ray counts and vertebral counts. One sinistral dab has been found out of 2357. From British fishing statistics it is shown that this fish is of little, and declining, commercial importance. In Canada, however, the American subsp. is becoming more important commercially.

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- M
61-03861
- Barnes, H. & J. D. Costlow, Jr.** (1961)
J. Mar. biol. Ass. U.K., 40 : 59-68
 The larval stages of *Balanus balanus* (L.) Da Costa
- Six naupliar and a cyprid stage are described and diagrams given for general outlines and individual appendages. Sizes and setation formulae. Naupliar stages resemble both *B. balanoides* and *B. crenatus*; attention is drawn to some distinguishing features and a key for separation of sp. is provided.
- M
61-03862
- Scher, S. & S. Aaronson** (1958)*
Brookhaven Symp. Biol., (11) : 343-7
 Nutritional factors in apochlorosis: comparative studies with algae and higher plants
- M
61-03863
- Droop, M. R.** (1961)
J. Mar. biol. Ass. U.K., 40 : 69-76
 Vitamin B₁₂ and marine ecology: the response of *Monochrysis lutheri*
- Ci 580935, 580934, 582275, 59-5454 and 61-03862. Culture experiments.
- MF
61-03864
- Scarratt, D. J.** (1961)
J. Mar. biol. Ass. U.K., 40 : 77-80
 A pressurizing device for a camera case designed for use in shallow water
- Device described. Consists of single stage demand-valve working on same principle as aqualung and Sparklet bulb fitted to demand-valve by an adaptor and an on/off valve used as gas supply.
- M
61-03865
- Brafield, A. E. & G. E. Newell** (1961)
J. Mar. biol. Ass. U.K., 40 : 81-7
 The behaviour of *Macoma balthica* (L.)
- This tellinid moves extensively about surface of sand, activities not being restricted to vertical movement as hitherto supposed. Migrations comprise a movement towards the sun followed by a movement away from it. If there is heavy cloud movements still occur, but are random. Other intertidal spp. indulge in similar movements.
- M
61-03866
- Atkins, D.** (1961)
J. Mar. biol. Ass. U.K., 40 : 89-94
 The generic position of the brachiopod *Megerlia echinata* (Fischer & Oehlert)
- Variation in convexity of valves and development of pedicle opening described. Concluded that spp. should be transferred from *Pantellaria* back to *Megerlia*.

M

61-03867

Atkins, D. (1961)*J. Mar. biol. Ass. U.K.*, 40 : 95-111

The growth stages and adult structure of the lophophore of the brachiopods *Megerlia truncata* (L.) and *M. echinata* (Fischer & Oehlert)

Ci 592613, 596631 and 61-01003. *Megerlia truncata* and *M. echinata* dredged by R.V. 'Sarsia' have been examined living.

M

61-03868

Walne, P. R. (1961)*J. Mar. biol. Ass. U.K.*, 40 : 113-22

Observations on the mortality of *Ostrea edulis*

Account given of mortality at Tal-y-foel oysterage from 14 days to 11½ years after metamorphosis. Survival curve corresponds with Pearl's "positive skew rectangular type". Major predators are rare or absent, and cause of most of mortality is unknown.

M

61-03869

Boney, A. D. (1961)*J. Mar. biol. Ass. U.K.*, 40 : 123-6

A note on the intertidal lichen *Lichina pygmaea* Ag.

Failed to recolonize areas on S. Devon coast cleared from within the lichen "mats" after four years. Complex of factors governs size reached by a lichen tuft.

M

61-03870

Howie, D. I. D. (1961)*J. Mar. biol. Ass. U.K.*, 40 : 127-44

The spawning of *Arenicola marina* (L.). 2. Spawning under experimental conditions

M

61-03871

Manton, I. & G. F. Leedale (1961)*J. Mar. biol. Ass. U.K.*, 40 : 145-55

Further observations on the fine structure of *Chrysochromulina ericina* Parke & Manton

New light-optical and electron microscope observations of culture material.

M

61-03872

Forster, G. R. (1961)*J. Mar. biol. Ass. U.K.*, 40 : 157-60

An underwater survey on the Lulworth Banks

Ci 59-6633. Brief account of sessile animals and algae found by diving. Numbers of a sponge *Polymastia*, a sabellid worm *Bispira* and bryozoan *Lepralia* were counted over a total area of 650 m².

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- M
61-03873
- Binyon, J. (1961)**
J. Mar. biol. Ass. U.K., 40 : 161-74
 Salinity tolerance and permeability to water of the starfish *Asterias rubens* L.
- Ci 580888. Experiments with N. Sea specimens of this asteroid which is the sp. of echinoderm penetrating furthest eastward in the Baltic. Difference of tolerance considered as evidence of physiological races.
- M
61-03874
- Greenhalgh, R. & J. P. Riley (1961)**
J. Mar. biol. Ass. U.K., 40 : 175-86
 Perchlorate in sea water
- Ci 582275, 580932, 61-03875, 1939 Willard, H. H. & G. M. Smith. Use of tetraphenylarsonium chloride for detection and determination of perchlorate investigated. Thirty surface and deep water samples from both northern and southern hemispheres examined for perchlorates, with negative results. Action of perchlorate on growth of seven unicellular algae has been examined.
- M
61-03875
- Baas Becking, L. G. M., A. D. Haldane & D. Izard (1958)**
Nature, Lond., 182 : 645-7
 Perchlorate, an important constituent of sea water
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- Description of 7 spp. of copepods from the Dona Duka cave and of 2 new spp. from the River Neretva.
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61-03911**Anon. (1960)***Africa Tr. Developm.*, 2 (11) : 9

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61-03978

Fish Bull., Sacramento, (108) : 72 p.

The marine fish catch of California for the years 1957 and 1958

Common and scientific names, total annual landings since 1916; number of vessels and fishermen; monthly landings by spp., port, area; values and shipments.

MF

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61-03979

Fish. Inf. Bull., Aug. 26 : 161-5

Incl. statistics for fisheries products imported to and exported from US during 1954 to 1960. Gives country of origin and destination.

M

Anon. (1960)

61-03980

Fish. Inf. Bull., Sept. 16 : 178

Foreign fishery developments. Panama's shrimp industry studied by FAO expert

Incl. note on FAO fishery expert's recommendations to Panamanian Govt to counteract a decline in its shrimp fishery.

MF

National Canners Association (1960)

61-03981

Fish. Inf. Bull., Sept. 16 : 175-8

Incl. 61-03980.

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Tommasi, L. R. (1958)

61-03982

Contr. Inst. oceanogr. S. Paulo (Oceanogr. biol.), (2) : 28 p.

Os equinodermas do litoral de São Paulo. 2. Diadematidae, Schizasteridae, Brissidae, Cidaroidae (Echinoidea) e Asteroidea do bentos costeiro (The echinoderms of the coast of São Paulo. 2. Diadematidae, Schizasteridae, Brissidae, Cidaroidae (Echinoidea) and Asteroidea of the coastal benthos)

A second contribution made to bring up-to-date the list of echinoderms from the coast of São Paulo, a further record is given of the echinoids found on that region, enumerating the spp. known of the families Diadematidae, Schizasteridae, Brissidae, and Cidaridae, and of the asteroids from the same region.

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The Morro Bay otter trawl and party boat fisheries—August, 1957 to September, 1958

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Calif. Fish Game, 46 (1) : 69-80
 Observations on the food habits of longline caught bigeye and yellowfin tuna from the tropical eastern Pacific 1955-1956
- Describes stomach contents from 40 *Parathunnus sibi* taken near the equator from Ecuador to 500 miles west of the Galapagos Islands and 18 *Neothunnus macropterus* from vicinity of Costa Rica and Clipperton Island.
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Calif. Fish Game, 46 (1) : 91-106
 Inimical effects on wildlife of periodic DDD applications to Clear Lake
- Presents results of chemical analyses of animal tissue from birds, fish and frogs from a large lake in California treated with DDD (dichloro diphenyl dichloroethane) to eradicate gnats, *Chaoborus astictopus*.
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Calif. Fish. Game, 46 (1) : 107-9
 Recovery of tagged bluefin tuna (*Thunnus saliens*)
- Gives release and recovery data—dates, location, time free days, distance traveled and length on recovery—for eight recoveries out of 120 tagged near Guadalupe Is. off Baja California.
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Sonderdr. Bundesanst. Wasserbiol., (46) : 23 p.
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 (The impoverishment of running water biocoenoses caused by waste water from ore flotation)
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 Tokyo, Japan Fisheries Agency, 7 p.
 (Progress report king crab investigations in the eastern Bering Sea, 1959).
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- Issued also as: INPFC Doc., (322 (2)). Charts, experimental fishing results for *Paralithodes*; seasons and catches, abundance.

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Sonderdr. Bundesanst. Wasserbiol., (57) : 20 p.
Die Giftwirkung von Kupfersulfat auf Wasserorganismen (The poisonous effect of copper sulfate on water organisms)

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Fiskeridir. Skr. Fiskeri, 4 (3) : 32 p.
Vekslinger i forekomsten av forskjellige Fiskeslag på Skagerakkysten (Fluctuations in the abundance of some fishes on the Norwegian Skagerack coast)

Survey of the hydrography of the area and description of the variations in season and locality of the occurrence of different spp. of fish during last 100 years and its relation to climatic variation.
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- Sprague, J. W. (n.d. 1959?)**
Dingell-Johnson Project F-1-R-8, Job No. 1, 2, 3, 4 & 5, 29 p.
Report of fisheries investigations during the sixth year of impoundment of Fort Randall Reservoir, South Dakota, 1958

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Report of fisheries investigations during the fourth year of impoundment of Gavins Point Reservoir, South Dakota, 1958

Subjects incl. a brief description of the reservoir, physical and chemical findings, spp. composition, reproduction, age and rate of growth, length-weight relationships, age at maturity, stocking and preliminary investigations of food abundance.
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Item 20, CCI-III/Doc. 32, mimeo, 4 p.
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Do 60-266me. Submitted by FAO.
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Guide to climatological practices
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Climatic atlases. Report on maps of agricultural interest which should be included in climatological atlases
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Item 13, CCI-III/Doc. 60, mimeo, 8 p.
Guide to climatological practices

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61-04003
Tokyo, Japan Fisheries Agency, 25 p.
(Age composition of chum stocks in the North Pacific). *Ni*

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61-04004
INPFC Doc. Ser. No. 335, 7 p.
On the chum salmon stocks

En 16-04003. Report on chum salmon stock study made in 1957 on the basis of the age composition, number of circuli of scales and calculated body length of four-year fish of chum salmon in the North Pacific.

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VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-271me to 61-311me

**American Society of Zoologists, Division of Comparative
Endocrinology and Comparative Physiology.** 28/12/61 G
61-271me
Denver, Colo., U.S.A. 2 days
Symposium on neurosecretion

Institute of Mathematical Statistics. 14/6/61 G
61-272me
Seattle, Wash., U.S.A. 4 days
24th Annual meeting

SPC. Jul./62 M
61-273me
Utulei, Nr Pago Pago, American Samoa. 10 days
5th Conference.

Central Treaty Organization, Scientific Council. 8/1/62 G
61-274me
Lahore. 6 days
Symposium on the role of science in the development of natural resources
with particular reference to Iran, Pakistan and Turkey

WMO. 29/1/62 MF
61-275me
New Delhi. 19 days
3rd Session of the Commission on Instruments and Methods of Observation

**Arbeidsutvalget for Utvikling av Pelagisk
Enbatstral, Bergen.** 8/2/62 M
61-276me
Trondheim, Norway. 2 days
International Group for Pelagic Fishing Methods and Gear (I.F.)

**Northwest Pacific Fisheries Commission
(Japan-USSR).** Feb./62 M
61-277me
Moscow, USSR. 1 day
6th Annual meeting

Conference will discuss adoption of regulations and set a salmon catch quota
for Japan.

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NATO. 26/3/62
 Liverpool, U.K. 5 days
 Lectures on tides and storm surges

GM
 61-278me

The lectures to be delivered will incl.: gravity waves-theory and hypothesis; the nature of the problem in oceans and seas; the nature of the problem in coastal waters and estuaries; the analytical problem—recent developments in the analytical treatment of the two-dimensional problem; the analogue approach—the mathematical formulation of tidal problems in analogue computation; the numerical approach—a review of computing theory—review of computing practice—review of operators; alternative approaches—the method of characteristics—characteristics and computers.

American Society of Zoologists, Division of Comparative Endocrinology. 28/4/62
 South Hadley, Mass., U.S.A. 2 days
 Northeast conference

G
 61-279me

American Society of Zoologists, Division of Comparative Endocrinology. 1st week/5/62
 Kalamazoo, Mich., U.S.A.
 North-central conference

G
 61-280me

American Society of Zoologists, Division of Comparative Endocrinology. 1st week/5/62
 New Orleans, Louisiana, U.S.A.
 Southeast conference

G
 61-281me

I-ATTC. 16/5/62
 Quito, Ecuador. 3 days
 Meeting

M
 61-282me

ISO/TC 38, Sub-Committee on Fishing Nets. 22/5/62
 Hamburg, Germany. 2 days
 1st Meeting

MF
 61-283me

Will deal with standardization of definitions and basic terms in connection with netting twines, webbing, size of mesh; methods of testing nets and net materials.

MEETINGS

Challenger Society/Representatives from Marine Laboratories. 23/5/62
 Millport, Isle of Cumbrae, Scotland. 2 days
 Meeting

M
 61-284me

Following papers will be read, by: R. H. Millar, Investigations on the Loch Ryan oyster beds; C. M. Yonge, Observations on the biology of the mesogastropod *Trichotropis cancellata*; C. H. Mortimer, Internal waves in large basins; S. M. Marshall and A. P. Orr, Carbohydrate and organic matter as a measure of phytoplankton in the sea in spring; M. R. Droop, On cultivating *Skeletonema costatum*; C. Edwards, Observations on the distribution of *Velella* in the Atlantic and the Mediterranean; V. Bainbridge, Distribution of plankton and pelagic fishes off the coast of tropical West Africa; T. H. J. Gilmour, Defensive adaptations in the bivalve *Lima hians*; T. B. Bagenal, A review of flat fish fecundity; H. T. Powell, The distribution and ecology of some common intertidal plants and animals in northern Norway; J. R. Lewis and H. T. Powell, Further observations on the distribution of *Chthamalus stellatus* and *Balanus balanoides* in Argyll, Scotland; J. Mauchline, Levels of radioactive elements in the sea off western Britain; P. R. O. Barnett, Life cycles of the two species of *Platyhelipus* (Harpacticoida).

International Fisheries Show. 25/5/62
 Lorient, France. 10 days
 1st Bi-annual show

MF
 61-285me

American Society of Zoologists, Division of Comparative Endocrinology. Last week/5/62
 Columbia, Missouri, U.S.A.
 South and mid-central conference

G
 61-286me

IAEA. 18/6/62
 Vienna, Austria. 5 days
 Meeting of the Panel on radioactive waste disposal for users of radioisotopes

MF
 61-287me

Wildlife Disease Association, U.S. 24/6/62
 High View, N.Y., U.S.A. 4 days
 International conference on wildlife disease

G
 61-288me

ASAB. 11/7/62
 Oxford, U.K. 3 days
 Symposium on reproductive and parental behaviour

MF
 61-289me

Incl. papers by: D. J. Crisp, Release of larvae by barnacles in response to the available food supply; E. Fabricius, Comparative studies on the spawning behaviour of *Salmonidae*; R. Riley, Some aspects of reproductive isolation in four sympatric species of poeciliid fishes.

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- FAO.** 21/7/62 M
61-290me
Dublin, U.K. 8 days
Fishing boat forum
- FAO/ECLA.** 23/7/62 MF
61-291me
Rio de Janeiro. 12 days
Regional conference for Latin America
- West Pacific Fisheries Commission.** Aug.-Sept./62 MF
61-292me
Moscow.
7th Meeting
- SCAR/ICSU.** 3/9/62 M
61-293me
Paris. 5 days
Symposium on antarctic biology
- Papers may be read on biogeography and systematics, marine productivity, ecology, ethology, physiology (animal and plant), and conservation.
- Intergovernmental Oceanographic Commission.** 19/9/62 M
61-294me
Paris. 10 days
2nd Meeting
- Conference of European Comparative Endocrinologists.** 20/9/62 G
61-295me
London, U.K. 3 days
Conference
- Scientific proceedings will consist of presentation and discussion of offered papers dealing with current research, and will be published in abstract form in *General and Comparative Endocrinology*.
- Arbeidsutvalget for Utvikling av Pelagisk Enbatstral, Bergen.** Sept./62 M
61-296me
Netherlands.
International Group for Pelagic Fishing Methods and Gear (I.F.) (tentative meeting)
- FAO/ICES/ICNAF.** Sept./62 MF
61-297me
Copenhagen.
Joint working party on fisheries statistics
- IAEA.** 1/10/62 M
61-298me
Vienna, Austria. 6 days
Meeting of the Panel on the legal implications of disposal of radioactive waste into the sea

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| <p>Pacific Tuna Conference. 2/10/62
 Lake Wilderness, Nr Seattle, Wash., U.S.A. 2 days
 13th Meeting</p> | <p>M
 61-299me</p> |
| <p>Eastern Pacific Oceanic Conference. 3/10/62
 Lake Wilderness, Nr Seattle, Wash., U.S.A. 3 days</p> | <p>M
 61-300me</p> |
| <p>FAO. 15/10/62
 Rome, Italy. 12 days
 39th Session of the Council</p> | <p>G
 61-301me</p> |
| <p>Pacific Marine Fisheries Commission. 17/10/62
 Seattle, Wash., U.S.A. 3 days</p> | <p>M
 61-302me</p> |
| <p>Office International des Epizooties (O.I.E.), Commission permanente de l'O.I.E. pour l'étude des maladies des poissons. 20/10/62
 Torino, Italy. 5 days
 Symposium européen sur les maladies des poissons et l'inspection des produits de la pêche fluviale et maritime (European Symposium on the diseases of fishes and the inspection of products of riverine and marine fisheries)

 Organized by Italian Ministry of Public Health and Turin Zooprophylactic Institute. Agenda covers diseases of fishes caused by bacteria, fungi, parasites, protozoans, recognized in each country; their sanitary and economic importance and methods of combating them which are applied or envisaged. Organization in each country of fisheries product inspection services; training of inspectors. Organization of research on fish diseases and their treatment.</p> | <p>MF
 61-303me</p> |
| <p>American Meteorological Society. 22/10/62
 Ashville, N.C. 4 days
 2nd Conference on climatology</p> | <p>G
 61-304me</p> |
| <p>CIESMM. 22/10/62
 Monaco. 7 days
 Meeting</p> | <p>M
 61-305me</p> |
| <p>INPFC. 29/10/62
 Seattle, Wash., U.S.A. 13 days
 Committee sessions prior to 9th annual meeting of INPFC</p> | <p>M
 61-306me</p> |
| <p>FAO. Oct.-Nov./62
 Latin America.
 Regional seminar on rural cooperation for Latin America, in collaboration with FAO</p> | <p>MF
 61-307me</p> |

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| FAO. 1/11/62
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61-308me |
| NPFSC. 21/11/62
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61-309me |
| NPFSC. 26/11/62
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61-310me |
| ASAB. 12/12/62
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Symposium on "Gregarious behaviour " | G
61-311me |

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61-312me to 61-322me

- | | |
|--|----------------|
| FBA/UK. 29/6/62
London, U.K. 1 day
Annual general meeting | F
61-312me |
| International Congress of Physiological Sciences. 10/9/62
Leiden, Holland. 8 days
22nd Congress | G
61-313me |
| Zoological Society of India. 15/10/62
Varanasi, India. 7 days
2nd All-India congress of zoology | MF
61-314me |
| FAO. Oct./62
Seoul, Korea.
Symposium on the development of mechanized fishing fleets in the IPFC region | MF
61-315me |
| FAO/WHO. Oct./62
Lima, Peru. 1 week
Technical meeting on nutrition problems in South America. 5th regional conference | G
61-316me |
| Gulf States Marine Fisheries Commission. Oct./62
Dauphin Island, Alabama.
13th Annual meeting | M
61-317me |
| FAO. Oct.-Nov./62
Latin America
Regional seminar on fishery development planning and administration | MF
61-318me |
| SPC. Oct./62
Noumea, New Caledonia.
23rd Session | M
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M
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6th Session of the Maritime Safety Committee

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M
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Thailand? 5 weeks?

Regional course in marine sciences

Program includes taxonomic aspects of work in zooplankton, benthic invertebrates and fish.

IAEA/Joint Commission on Applied Radioactivity. 3/5/61

G
61-322me

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Taxonomic descriptions.

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 Fishing news bulletin

Notes on the activities of Sea Fisheries Institute, fish landings, governmental and industrial activities.

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Invest. pesq., (15) : 3-38
 Hidrografia y fitoplancton de las costas de Castellón, de julio de 1957 a junio de 1958 (Hydrography and phytoplankton of the coasts of Castellon from July 1957 to June 1958). En

Enrichment of surface waters by upwelling and spectrophotometric studies of pigment extracts of plankton are considered in particular.

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Invest. pesq., (15) : 39-50
 Contribución al conocimiento de la biología de *Eledone cirrhosa* (Lamck.)—2. Crecimiento relativo (Contribution to the knowledge of the biology of *Eledone cirrhosa* (Lamck.)—2. Relative growth)

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Invest. pesq., (15) : 51-80
 La gamba (*Parapenaeus longirrostris* Lucas). Primeras observaciones en los caladeros del Golfo de Cádiz y Africa Occidental (The shrimp *Parapenaeus longirrostris* Lucas; first observations on the fishing grounds of the Gulf of Cadiz and West Africa). En

A preliminary report is given on the fishing grounds of the Gulf of Cadiz and adjacent Moroccan coasts, with a previous study of the fishing gears used. The fishing operations landing data over 16 years are summarized. The descriptions of the fishing grounds are accompanied with a list of the characteristic spp. fished at different depths, studied from 100 to 500 meters.

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Invest. pesq., (15) : 81-101
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The extracts of a number of spp. of the marginal reefs of Puerto Rico have been studied. Average pigment content for groups significant ecologically or taxonomically are reported.
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Invest. pesq., (15) : 103-12
Composición química de la móllera (*Gadus capellanus* Risso) y su variación estacional (Chemical composition of *Gadus capellanus* Risso, and its seasonal variation). En
Water, fat, proteins and ashes are quantitatively determined for a period of three years in the meat and for one year in the livers. Samples were taken about once a month. Analyses are made separately for males and females and the gonads are weighted in order to follow their development.
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Invest. pesq., (15) : 113-23
Sobre la presencia de *Opisthoteuthis agassizii* Verrill, en el Mediterráneo (On the occurrence of *Opisthoteuthis agassizii* Verrill in the Mediterranean). En
A new member of the fauna of the Mediterranean, which until now has been known only in the Atlantic, caught at 41°30'N, 3°E of Greenwich, at a distance of approximately 30-40 miles from Blanes, at a depth of 670-690 m.
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Invest. pesq., (15) : 125-9
Sardinas parasitadas por el copépodo *Peroderma cylindricum* Heller, en las zonas de Barbate y Larache (*Peroderma cylindricum* Heller copepod parasite of sardines in the zones of Barbate and Larache). En
The hosts 90 to 200 mm total length were found only in large sardines 165 to 190 mm.
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- de Oliveira, L. P. H., R. do Nascimento & A. Miranda** (1959)
Mem. Inst. Osw. Cruz., 57 (1) : 127-36
Estudos sobre o fósforo em algumas lagoas do Rio de Janeiro (Study on the phosphorus in some lagoons of Rio de Janeiro)
BA 35A (20) 54942. Tables of data are given showing the phosphates in five lagoons. List of phytoplankton spp.

MF

de Oliveira, L. P. H. et al. (1959)

61-04755

Mem. Inst. Osw. Cruz., 57 (2) : 115-26

Observações hidrobiológicas sobre a mortalidade de peixes na lagoa de Camorin (Hydrobiological observation on fish mortality in the lagoon of Camorin)

BA 35A (20) 54943. Phenomenon begun in 1956 and repeated annually. Geography of lagoon is described, with discussion of hydrography, bacteriology, etc. Analyses were made of temperature, weather, plankton, chemical constitution of the water. Conclusion that an excess of sea water entering the lagoon caused an excessive growth of surface plankton, and when these died, the action of anaerobic bacteria produced an excess of hydrogen sulfide gas, which was the direct cause of the death of the fish.

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Sci. Bull. Fac. Agric. Kyushu, 18 (1) : 61-70

(An introduction to the identification of the pelagic fish eggs and hatched larvae). *Ni En*

Identification of eggs based on size and shape, egg membrane, perivitelline space, yolk, oil globule, pigmentation, and hatching pore; and of larvae, on yolk shape, oil globule, number of myotomes, position of anus, fins, and pigmentation.

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Sci. Bull. Fac. Agric. Kyushu, 18 (1) : 71-94

(Keys to the pelagic fish eggs and hatched larvae found in the adjacent waters of Japan). *Ni En*

Keys to 246 spp. of pelagic eggs and hatched larvae.

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Sci. Bull. Fac. Agric. Kyushu, 18 (1) : 95-102

(Studies on the fish-components influencing the preservatives—4. The (putrifying process of the surface mucus of loach, *Misgurnus anguillicaudatus* Cantor). *Ni En*

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Rev. algol., 4 (4) : 227-37

Un intéressant *Hildenbrandtia* du Portugal (An interesting *Hildenbrandtia* from Portugal)

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Öst. Bot. Z., 106 (5) : 390-430
 Die Diatomeenflora des Neusiedler Sees im österreichischen Burgenland
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Rev. algol., 4 (4) : 256-74
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Science, 133 (3446) : 98-9
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61-04782
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En 1929 Amemiya, I., S. Semuna and K. Suwa.

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Rome, 162 p.

List of films and filmstrips on fisheries and related subjects—Revised and augmented

NE 583732. Annotated list of 536 films and 54 filmstrips in alphabetical order of title; broad subject index—incl. spp. group index by vernacular names; list of names and addresses of distributors. Indications of films in possession of FAO. Contains annotations to 61-04815 to 61-04833.

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61-04815
National Film Board of Canada
Encounter at Trinity

30 min, 16 mm, b & w, sound. Annotation in 61-04814.

- Film** (1957) MF
61-04816
U.S. Fish & Wildlife Service
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14 min, 16 mm, color, sound. Annotation in 61-04814.

- Film** (1957) F
61-04817
Feuilleton Film, Germany
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12 min, 16/35 mm, b & w, sound. Annotation in 61-04814.

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61-04818
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| South Australian Government Tourist Bureau | 61-04828 |
| Tuna | |
| 16 min, 16 mm, b and w, sound. Annotation in 61-04814. | |
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| Netherlands, Ministry of Agriculture & Fisheries | 61-04829 |
| Verse mosselen (Fresh mussels). <i>Fr Ne</i> | |
| 31 min, 16 mm, b and w, sound. Annotation in 61-04814. | |
| Filmstrip (d.u.) | MF |
| Pictorial Films Inc., USA | 61-04830 |
| Alive in the deep | |
| 66 mm, sound. Annotation in 61-04814. | |
| Filmstrip (d.u.) | M |
| Nippon Suisan Kaisha Ltd., Japan | 61-04831 |
| (Antarctic whaling expedition). <i>Ni</i> | |
| 45 min, 16/35 mm, b and w, sound. Annotation in 61-04814. | |
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M

INPFC (1960)*

61-04944

Washington, U.S. Govt Print. Off., 4 p.

High seas fisheries of the North Pacific Ocean: amendment to the annex to the convention signed at Tokyo May 9, 1952. Adopted at the sixth annual meeting of the International North Pacific Fisheries Commission, Seattle, Washington on November 7, 1957

F

Ehrlich, S. & D. Spielberg (1960)

61-04945

Amer. J. trop. Med. Hyg., 9 (3) : 265-8

Alteration of the environment of *Anopheles* larvae by nutria in the Naaman swamps Acre District, Israel

BA 35E (20) 57235.

F

Dobrzanzka, J. (1959)

61-04946

Bull. Acad. polon. Sci., 7 (9) : 377-82

The occurrence of ciliates of the genus *Tetrahymena* Furgason, 1940 in fresh-water mussels

BA 35E (20) 57245. Morphological descriptions of ciliates parasitic in *Pisidium obtusale* and *Sphaerium corneum*.

F

Jarecka, L. (1960)

61-04947

Acta parasit. polon., 8 (1-7) : 47-66

(Life-cycles of tapeworms from Lakes Goldapiwo and Mamry Polnocne). Pl

BA 35E (20) 57270. Presents extensive information on the natural invasion of crustaceans—Copepoda, Ostracoda and Cladocera—by tapeworm larvae in two Polish lakes.

F

Kozicka, J. & K. Niewiadomska (1960)

61-04948

Acta parasit. polon., 8 (1-7) : 25-36

Tylodelphys podicipina n. sp. (Trematoda Strigeidae) and its life-cycle. Pl

BA 35E (20) 57271. Described from a grebe *Podiceps cristatus*. Invasion of vitreous humor and fluid of eye of intermediate fish hosts was a habit similar to that of *T. scheuringi* in the US—invasion of *Perca fluviatilis* and *Lota lota* by the Polish sp. and invasion of *P. flavescens* and *L. maculosa* by the American sp.

F

Ryšavý, B. (1958)

61-04949

Vestn. čsl. Spol. zool., 22 (2) : 121-9

Helminthofauna kormoránů (*Phalacrocorax carbo* L.) hnízdících v Československu (Helminthofauna of the large cormorant, *Phalacrocorax carbo* L., living in Czechoslovakia). De Ru

BA 35E (20) 57277. A table is incl. for determining spp. of the genus *Parastrigea* Szidat, 1928.

- F
61-04950
- Sulgostowska, T. (1960)**
Acta parasit. polon., 8 (1-7) : 85-114
 (Intestinal trematodes of birds of mesotrophic lakes; Goldapiwo and Mamry Polnocne). Pl
- BA 35E (20) 57279. 36 spp. of intestinal trematodes of seven families recorded.
- M
61-04951
- Tuzet, O. & M. Pavans de Ceccatty (1958)**
Bull. biol., 92 (4) : 331-48
 La spermatogenèse, la fécondation et les premiers stades du développement d'*Hippospongia communis* Lmk (= *H. equina* O.S.) (Spermatogenesis, fertilization and the first developmental stages of *Hippospongia communis* Lmk (= *H. equina* O.S.))
- BA 35E (20) 57291.
- M
61-04952
- Day, J. H. (1960)**
Ann. S. Afr. Mus., 45 (3) : 261-373
 The polychaete fauna of South Africa—5. Errant species dredged off Cape coasts
- BA 35E (20) 57295.
- M
61-04953
- Knox, G. A. (1960)**
Rec. Canterbury Mus., 7 (3) : 219-32
 The polychaetous annelids of New Zealand. Part 1. Glyceridae
- BA 35E (20) 57298. Generic key—*Hemipodus* and *Glycera*—for family and keys to spp. New distributional records listed.
- F
61-04954
- Brehm, V. (1958)**
Mem. Inst. sci. Madagascar (Ser. A. Biol. An.), 12 : 25-33
 Les entomostraces de l'île Amsterdam (Récoltés P. Paulian 1955-1956) (The Entomostraca of Amsterdam Island, collected by P. Paulian 1955-1956)
- BA 35E (20) 57305. Discussion of freshwater Antarctic fauna with description of *Cyclops abnobensis undulatus* n. var.; *Pseudoboeckella volucris* and *Ilyodromus kerguelensis* are also discussed.
- F
61-04955
- Chappuis, P. A. (1958)**
Mem. Inst. sci. Madagascar (Ser. A. Biol. An.), 12 : 13-24
 Crustacés des eaux douces de l'île d'Amsterdam: *Protocharon antarctica*, n. sp. (Crustaceans from the fresh water of Amsterdam Island: *Protocharon antarctica* n. sp.)
- BA 35E (20) 57306. Describes this isopod of the Paraselloidea from cata-racts on this island of the Malgache Archipelago. Antarctic affinities of these freshwater forms are discussed, particularly in regard to Tasmania and South America.

F

de Castro, A. L. (1959)

61-04956

Arch. Mus. nac., Rio de J., 49 : 69-93Sobre as espécies sul-americanas do genero *Braga* Schioedte e Meinert, 1881 (Isopoda, Cymothoidea) (On the South American species of the genus *Braga*)

BA 35E (20) 57307. Genus—family Cymothoidae—comprises 6 spp., all parasites of freshwater fishes.

M

della Croce, N. (1959)

61-04957

Atti Accad. Ligure, 15 (1) : 311-25Considerazioni biologiche su un cladocero marino: *Penilia avirostris* Dana (Biological considerations on a marine cladoceran: *Penilia avirostris* Dana)BA 35E (20) 57308. Describes features of world distribution, density/m³. In Gulf of Naples distribution is correlated with the transparency of the water, and this factor is added to the ecological ones already known. Temperature requirements—calculated as degrees/day—to reach the highest densities.

M

de Loyola & Silva, J. (1959)

61-04958

Dusenía, 8 (2) : 79-88*Pseudosphaeroma jakobii* n. sp. (Isopoda—Crustacea), encontrado na Baía de Guarantuba (Paraná—Brasil) (*Pseudosphaeroma jakobii* n. sp., Isopoda, Crustacea, found in the Bay of Guaratuba, Paraná, Brazil)

BA 35E (20) 57309.

M

Holmquist, C. (1959)

61-04959

K. fysiogr. Sällsk. Lund, Förh., 29 : 21-5*Mysis polaris*—a new species of the genus *Mysis*

BA 35E (20) 57313. Based on a specimen collected in 1880 on the second cruise of the US Revenue Cutter 'Corwin', the locality being only Arctic Ocean. A second specimen has been identified from the Kara Sea.

F

Kowalczyk, C. (1959)

61-04960

Ann. Univ. M. Curiae-Sklodowska, 12C (6) : 57-101

Widłonogi (Copepoda) jezior Libiszowskich (Copepoda of the Libiszow lakes). De Ru

BA 35E (20) 57316. Spp. found by the author represent 38.4% of all Copepoda found in all Polish lakes to date.

M

Matthews, D. C. (1959)

61-04961

Pubbl. Staz. zool. Napoli, 31 (2) : 248-63Observations on ova fixation in the hermit crab *Eupagurus prideauxii*

BA 35E (20) 57319.

REFERENCES

- F
61-04962
- Nogueira, M. H.** (1959)
Dusenía, 8 (2) : 61-8
 O género *Elaphoidella* (Harpacticoidea—Cop.-Crust.) nas águas do Paraná
 (The genus *Elaphoidella* in the waters of Paraná)

BA 35E (20) 57321.

- MF
61-04963
- Richardson, L. R. & J. C. Yaldwyn** (1958)
Tuatara, 7 (1) : 17-41

A guide to the natant decapod Crustacea (shrimps and prawns) of New Zealand

BA 35E (20) 57325.

- F
61-04964
- Ruffo, S.** (1958)
Mem. Inst. sci. Madagascar (Ser. A. Biol. An.), 12 : 35-66

Amphipodes terrestres et des eaux continentales de Madagascar, des Comores et de la Réunion (Études sur les crustacés amphipodes) (Terrestrial and continental water amphipods of Madagascar, the Comoro and Reunion Islands)

BA 35E (20) 57327. Distribution of 12 freshwater amphipods for these territories and their east African, Australian and Asian affinities.

- F
61-04965
- Schwartz, F. J. & W. G. Meredith** (1960)
Ohio J. Sci., 60 (1) : 40-54

Crayfishes of the Cheat River watershed West Virginia and Pennsylvania—Part I. Species and localities

BA 35E (20) 57328. Existence of *Cambarus bartoni carinirostris* and *C. carolinus carolinus* is reported. Issued also as: *Contr. Md Dep. Res. Educ.*, (125).

- MF
61-04966
- Feliksiak, S.** (1959)
Bull. Acad. polon. Sci., 7 (10) : 427-30

Position of the Monoplacophora in the phylogeny of the Mollusca

BA 35E (20) 57477. On the basis of recent papers, suggests that they should be treated as a subphylum of Mollusca.

- M
61-04967
- Martoja-Pierson, M.** (1958)
Bull. biol., 92 (2) : 183-204

Anatomie et histologie de l'appareil génital de *Conus mediterraneus* Brug. (Anatomy and histology of the genital structure of *C. mediterraneus* Brug.)

BA 35E (20) 57485.

M

Böhlke, J. E. (1960)

61-04968

Notul. nat. Acad. Philad., 329 : 1-8A new ophichthid eel of the genus *Pseudomyrophis* from the Gulf of MexicoBA 35E (20) 57496. *P. nimius*, from east of the delta of the Mississippi River.

M

Böhlke, J. E. (1960)

61-04969

Notul. nat. Acad. Philad., 330 : 1-11

Comments on serranoid fishes with disjunct lateral lines, with the description of a new one from the Bahamas

BA 35E (20) 57497. Key to the seven families recognized, followed by a synopsis in which all generic names are listed without regard to synonyms. *LIPOGRAMMA anabantoides* (Grammidae, Stigmatonotidae) is described.

M

de Carvalho, A. L. (1959)

61-04970

Bol. Mus. nac. Rio de J., 201 : 1-10

Novo gênero e nova espécie de peixe anual de Brasília, com uma nota sobre os peixes anuais da Baixada Fluminense, Brasil (Pisces—Cyprinodontidae—Fundulinae) (A new genus and new species of annual fish of Brazil, with a note on the annual fishes of the Baixada Fluminense)

BA 35E (20) 57500. *SIMPSONICHTHYS boitonei*, subfamily Fundalinae, tribe Rivulini, is described from the central high flat land of the state of Goyaz, Brazil, in temporary pool in the area reserved for the zoo of Brasília. Synonymy *Cynolebias whitei* Myers (= *Pterolebias elegans* W. Ladiges) is established.

F

Jubb, R. A. (1960)

61-04971

Ann. S. Afr. Mus., 45 (2) : 260

Note on locality records of freshwater fishes presented by F. D. McKean to the South African Museum

BA 35E (20) 57503. Data on specimens of 7 spp. labelled as from Rhodesia, but which probably were actually collected in the Zambesi above the Victoria Falls.

F

de Miranda Ribeiro, P. (1959)

61-04972

Bol. Mus. nac. Rio de J., 206 : 1-9

Considerações sobre Callichthyidae Gill, 1872 (Nematognatha) (Considerations on Callichthyidae)

BA 35E (20) 57508. Material in this family in collection of Museu Nacional, Rio de Janeiro, studied. Taxonomic history is reviewed.

REFERENCES

- Moreland, J. (1960)** M
61-04973
Rec. Dominion Mus., 3 (3) : 241-6
 A new genus and species of congiopodid fish from southern New Zealand
 BA 35E (20) 57509. *ALERTICHTHYS*, Congiopodidae, with type and only known representative *A. blacki*, collected east of Otago Peninsula, New Zealand.
- O'Rourke, F. J. (1960)** MF
61-04974
Irish J. med. Sci., 1960 (410) : 76-80
 Serological criteria of species
 BA 35E (20) 57511. Examples of use of serological methods for distinguishing spp. of fish are given. Photorefectometer studies. Ouchterlony technique by cellulose acetate immuno-diffusion technique of Consden & Kohn. *Sebastes marinus* and *S. mentella* could be distinguished.
- Pinto, S. Y. (1959)** F
61-04975
Bol. Mus. nac. Rio de J., (203) : 1-11
 Estudos morfológicos—1. Sobre as maxilas de *Colomesus psittacus* (Bloch and Schneider, 1801) Gill, 1884 (Actinopterygii, Tetradontiformes, Tetradontidae) (On the jaw bones of *Colomesus psittacus* (Bloch and Schneider, 1801) Gill, 1884—Actinopterygii, Tetradontiformes, Tetradontidae)
 BA 35E (20) 57512. Descriptions of upper and lower jaw bones and teeth.
- de Miranda Ribeiro, P. (1959)** M
61-04976
Publ. avuls. Mus. nac. Rio de J., 27 : 1-16
 Catálogo dos peixes do Museu Nacional—3. Callichthyidae Gill, 1872 (Catalogue of the fishes of the Museum Nacional—3. Callichthyidae Gill, 1872)
 BA 35E (20) 57514.
- Eniutina, R. (Program for Scientific Translations, Jerusalem, Transl.) (1960)*** MF
61-04977
 PST Cat. No. 7
 Morpho-biological and morphometric characteristics of pink salmon of the Amguna and Iska rivers
 En 59-2541UL. Available from Program for Scientific Translations* Jerusalem.
- Abramov, V. V. (Program for Scientific Translations, Jerusalem, Transl.) (1960)** MF
61-04978
 OTS 60-21144, mimeo, 35 p.
 The state of stocks and means for increasing the numerical counts of Amur pink salmon
 En 59-2485UL. Available from Office of Technical Services, Washington, D.C. Transl. quotes: Trudy soveshchaniia po voprosam lososevogo khoziaistva dal'nego vostoka (Moskva), No. 4, 1953, p. 48-69.

- M
61-04979
- Mukhacheva, V. A.** (Program for Scientific Translations, Jerusalem, Transl.) (1960)*
PST Cat. No. 9
The most numerous deep sea fish in far eastern seas—the cyclotons—*Cyclothone microdon* Guenther (Pisces, Gonostomidae)
En 59-2586UL. Available from Program for Scientific Translations, Jerusalem.
- M
61-04980
- Novikov, Iu. V. & L. V. Kliuev** (1958)*
Ryb. Khoz. 34 (5) : 8–13
Raiony promyslovykh skoplenii i lov sairy v Tikhom okeane (Saury concentration areas and fisheries in the Pacific Ocean)
- M
61-04981
- Novikov, Iu. V. & L. V. Kliuev** (Program for Scientific Translations, Jerusalem, Transl.) (1960)*
PST Cat. No. 9
Saury concentration areas and fisheries in the Pacific Ocean
En 61-04980. Available from Program for Scientific Translations, Jerusalem.
- M
61-04982
- Rass, T. S.** (Program for Scientific Translations, Jerusalem, Transl.) (1960)*
PST Cat. No. 9
Contributions to the study of Pacific Ocean Moridae (Pisces, Gadiformes)
En 59-2616UL. Available from Program for Scientific Translations, Jerusalem.
- M
61-04983
- Rass, T. S.** (Program for Scientific Translations, Jerusalem, Transl.) (1960)*
PST Cat. No. 9
Deep-sea fish of far eastern seas of the USSR
En 59-2615UL. Available from Program for Scientific Translations, Jerusalem.
- M
61-04984
- Zhivago, A. V. & A. P. Lisitsyn** (1957)*
Izv. Akad. Nauk S.S.R. (geogr.), (1) : 1935
(New data on the relief of the bottom and sediments of the seas of the eastern Antarctic). *Ru*
- M
61-04985
- Zhivago, A. V. & A. P. Lisitsyn** (Program for Scientific Translations, Jerusalem, Transl.) (1960)*
PST Cat. No. 1
New data on the relief of the bottom and sediments of the seas of the eastern Antarctic
En 61-04984. Available from Program for Scientific Translations, Jerusalem.

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- M
- Lisitsyn, A. P. & A. V. Zhivago** (Program for Scientific Translations, Jerusalem, Transl.) (1960)* 61-04986
 PST Cat. No. 1
 Relief of the bottom and sediments of the southern part of the Indian Ocean. Communication No. 1
En 59-2817. Available from Program for Scientific Translations, Jerusalem.
- M
- Lisitsyn, A. P. & A. V. Zhivago** (Program for Scientific Translations, Jerusalem, Transl.) (1960)* 61-04987
 PST Cat. No. 1
 Relief of the bottom and sediments of the southern part of the Indian Ocean. Communication No. 2
En 60-7163. Available from Program for Scientific Translations, Jerusalem.
- MF
- Skriabin, K. I., N. P. Shikhobalova & R. S. Shul'ts** (Program for Scientific Translations, Jerusalem, Transl.) (1960)* 61-04988
 PST Cat. No. 107
 The fundamentals of nematology (Trichostrongyloidea) of man and animals
En 1954 Skriabin, K. I., N. P. Shikhobalova & R. S. Shul'ts of orig. Ru. Available from Program for Scientific Translations, Jerusalem.
- MF
- Spasskiĭ, A. A.** (Program for Scientific Translations, Jerusalem, Transl.) (1960)* 61-04989
 PST Cat. No. 108
 The fundamentals of cestodology (Anoplocephalata)
En 1954 Spasskiĭ, A. A. of orig. Ru. Available from Program for Scientific Translations, Jerusalem.
- M
- Svetovidov, A. N.** (Program for Scientific Translations, Jerusalem, Transl.) (1960)* 61-04990
 PST Cat. No. 126
 Fauna of the USSR. Fishes—Clupeidae
En 59-2367UL. Available from Program for Scientific Translations, Jerusalem.
- F
- Anon.** (Program for Scientific Translations, Jerusalem, Transl.) (1960)* 61-04991
 PST Cat. No. 105
 Parasites and diseases of fish
En 61-04992. Available from Program for Scientific Translations, Jerusalem.

Leningrad. Nauchno-Issledovatel'skyi Institut Ozerogo i
Rechnogo Rybnogo Khoziaistva (1957)*

F
61-04992

Izv. vsesoyuz. nauch.-issled. Inst. ozer. rech. ryb. Khoz., 42 : 342 p.
(Parasites and diseases of fish). Ru

Leningrad. Nauchno-Issledovatel'skyi Institut Ozerogo i
Rechnogo Rybnogo Khoziaistva (Program for Scientific
Translations. Jerusalem, Transl.) (1960)*

F
61-04993

PST Cat. No. 105

Parasites and diseases of fish

En 61-04992. Available from Program for Scientific Translations, Jerusalem.

Van Eygen, G. (1959)

F
61-04994

Biol. Jaarb., 27 : 292-451

(Floristic and ecological data on the alga in the middle of Dijle). Ne

BAgr., 24 (7) 54799.

Lund, S. (1959)

M
61 04995

Medd. Grønland, 156 (1) : 247 p.

The marine algae of east Greenland. 1. Taxonomical part

BAgr., 24 (7) 54805.

Benoit, R. J., F. Trainor & A. Bialecki (1960)

F
61-04996

U.S.A.F. Wright Air Developm. Div. Tech. Dep., 60-163 : 1-29

Selection of an alga for a photosynthetic gas exchange

BA 35A (20) 54760. Detailed survey of plant kingdom and examination of requirements for effective exchange for closed-cycle ecological systems reveal that the unicellular nonmotile (coccoid) algae stand out above all other plant forms for use in an apparatus employing a suspension of cells in a liquid growth medium. A thermophilic strain of *Chlorella* seems to have the best combination of desirable characteristics. An intense industrial-scale screening program for discovery of even better strains of algae is suggested.

Lellák, J. (1958)

F
61-04997

Věstn. čsl. Spool. zool., 22 (3) : 203-31

Osídlení a sezónní dynamika zvířeny dna dvou rybníků (The bottom fauna of two ponds and their temporary periodicity). De

BA 35A (20) 54967. Ponds, of Černis at České Budějovice in southern Bohemia and that of Kyjsky near Prague. Physical and chemical factors were measured. Most abundant constituents of the bottom fauna were larvae of Chironomidae, Ceratopogonidae and Oligochaeta.

REFERENCES

- Rakestraw, N. W. et al. (Ed.) (1960)** M
61-04998
California University Press, 508 p.
Oceanic observations of the Pacific 1959

BA 35A (20) 54979. A medium for publication of data collected in the ocean and its adjacent seas by cooperating agencies. Volume contains observations made in 1950. For each station, values of temperature, salinity, oxygen, phosphate, or other measured concentrations are tabulated at observed and standard depths. Computed values of density, specific volume anomaly and geopotential anomaly were also tabulated. Numbers of bathythermograph observations made during 1941 to 1950, and those made in 1950, are shown by 5-degree squares. Information concerning cruises on which observations were made is summarized in a table.

- Tsivoglou, E. C., M. Stein & W. W. Towne (1960)** F
61-04999
J. Wat. Pollut. Contr. Fed., 32 (3) : 262-87
Control of radioactive pollution of the Animas River

BA 35A (20) 55003. Survey results are presented incl. uranium ore refining features, radioactivity levels in the stream, in algae and insects inhabiting the stream, river bottom muds, water treatment plant filter bed sands, milk, vegetable and crop samples obtained locally, precipitation and process effluents. Remedial measures were proposed.

- Kajaz, Z. (1960)** FG
61-05000
Bull. Acad. polon. Sci. (biol.), 8 (2) : 67-70
The representativeness of benthic samples

BA 35A (20) 54996. Author selected an ecologically uniform pool with a depth of 1 m, and spotted 10 sampling points 15 m apart. Series of samples were taken with an Ekman dredge and two tubular samplers.

- WHO. Scientific Group on Filariasis and on Non-Ophthalmological Aspects of Onchocerciasis. Geneva, 16-21 November 1959 (1959)** F
61-05001
Mimeo, 33 p.
Report to the Director-General.

CR 561453 and 561454. Restricted. Considers control of onchocerciasis in Africa by control of *Simulium*.

- Brown, A. W. A. (1960)** F
61-05002
WHO/Insecticides/119, mimeo, 36 p.
Study tour of *Simulium* control in Africa

Maps of distribution of the vectors of onchocerciasis, evaluation of control measures; suggestions for research, incl. identification and life-cycle of the freshwater crabs concerned in the *Simulium* life-cycle.

- Bocquet, C., R. Lejuez & G. Teissier (1960)** M
61-05003
Cah. biol. mar., 1 : 279-94

Génétique des populations de *Sphaeroma serratum* (F.) 3. Comparaison des populations mères et des populations filles pour les sphéromes du Cotentin (Genetics of populations of *Sphaeroma serratum* (F.) 3. Comparison of parent and filial populations among the sphaeromes of Cotentin)

Co 60-8615.

- Prenant, M. (1960)** M
61-05004
Cah. biol. mar., 1 : 295-340

Études écologiques sur les sables intercotidaux. 1. Questions de méthode granulométrique. Application à trois anses de la Baie de Quiberon (Ecological studies of intercotidal sands. 1. Questions of granulometric method. Application in 3 coves of the B. of Quiberon)

Methods of graphs and statistical analysis of granule frequency distributions. Bibliography of subject.

- Brattström, H. (1960)** M
61-05005
Cah. biol. mar., 1 : 341-3

La coopération des pays scandinaves en biologie marine (The cooperation of Scandinavian countries in marine biology)

No 60-345me. Note on activities of committee "Nordic College for Marine Biology"—fellowships, symposia, research programs.

- Film—Deroux, G. (1960)** M
61-05006
 Quelques types de leptonacées. Eulamellibranches commensaux (Some types of leptons—Commensal eulamellibranchs)

Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.

- Kozlova, O. G. (1961)** M
61-05007
Dokl. Akad. Nauk. SSR, 138 (1) : 207-10

Kolichestvennoe soderzhanie diatomei v vodakh Indiiskogo sektora Antarktiki (The quantitative content of diatoms in the waters of the Indian sector of Antarctic)

- Film—Vishniac & Einstein (1960)** M
61-05008
 Where the land meets the sea

Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.

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- Film—Gilpin-Brown, J. B. (1960)** M
61-05009
The colorful cuttle
- Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.
- Maddison, J. (1960)** M
61-05010
Cah. biol. Mar., 1 : 343-5
Note on the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, May 27 and 28, 1960. 1.
- No 60-346me, Re 61-05006 to 61-05009.
- Film—Bekows (1960)** M
61-05011
Haminea hydratis (Opisthobranchia)—Embryonentwicklung (*Haminea hydratis* (Opisthobranchia)—Embryo development)
- Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.
- Film—Hervat, J. C. & J. M. Bouchard (1960)** F
61-05012
Système circulatoire de l'alevin de truite (*Salmo irideus* Gibbons) (Circulatory system of trout fry, *Salmo irideus* Gibbons)
- Color. Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.
- Film—Lutaud, G. (1960)** M
61-05013
Les Bryozoaires (Bryozoa)
- Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.
- Film—Dijkgraaf (1960)** M
61-05014
Physiology of the statocyst in crabs
- Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.
- Film—Dijkgraaf (1960)** M
61-05015
Physiology of the statocyst in *Octopus vulgaris*
- Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.

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- Film—Lucey, E. (1960)** M
61-05016
Plankton

Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.

- Film—Teissier (1960)** M
61-05017
Microfaune des sables marins (Microfauna of sea sands)

Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.

- Film—Teissier (1960)** M
61-05018
Halammohydra

Presented at the Colloquium of the Research Section of the International Scientific Film Association, held at Roscoff Biological Station, 27 and 28 May 1960.

- Film—Haefelfinger (1960)** M
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 [Geneva-Tokyo], mimeo, 15 p.
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 Comments of various international organizations concerned with fisheries

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 Brief outlook over the Norwegian weather service for the fishermen

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 Utilization of sea surface temperature data for fisheries and the special forecast for fishing operations in Japan.

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Photographs and notes on vessels operated by Woods Hole Oceanographic Institution.

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Device helps collate research data

Note on the Aquatic Sciences Information Retrieval Centre directed by S. B. Salla at Rhode Island.

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 Considerații asupra mijloacelor de ameliorare piscicolă în cadrul amenajărilor stuficole de tip I din delta Dunării cu aplicații la M.U.S. Rusca (Consideration of the means of fisheries improvement in management of type I phragmitetum zones of the Danube Delta, application to the Rusca Unit). Fr Ru

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- Anon.** (1960)
Mondo sommerso, 2 (4) : 14-7
 Hanno discusso l'uomo-rana (They have discussed the frog-man)
 Unofficial report of 60-055me.

- M
61-05527
- Bini, G.** (1960)
Mondo sommerso, 2 (4) : 28
 I pesci delle coste italiane—Atlante generale (The fishes of the Italian coasts—General atlas)

Sheets for *Diplodus annularis* (L.) and *D. sargus* (L.). Gives ill. and general description of each sp., its habitat, distribution, colours, behaviour, larval characters; Italian vernacular—dialect—names, nutrition, fishery.

- M
61-05528
- de Sanctis, V.** (1960)
Mondo sommerso, 2 (4) : 45-7
 Il decompressimetro (The decompressimeter)
 Ill. description of this instrument for SCUBA divers and its use.

- M
61-05529
- de Sanctis, V.** (1960)
Mondo sommerso, 2 (4) : 50-1
 Storia dei fucili subacquei—Primo problema: l'acqua (History of under water guns—First problem: the water)

Third in series of articles on the mechanical theory of the spear.

REFERENCES

- M
61-05530
- Wiborg, K. F.** (1960)
Fiskeridir. Skr. Havundersøk., 12 (6) : 19 p.
 Investigations on zooplankton in Norwegian waters and in the Norwegian Sea during 1957-58
- Quantitative seasonal variations of the zooplankton volumes at certain fixed points along the coast and at weathership ' M ' and areal quantitative distribution during several oceanographic and fisheries cruises during different seasons.
- M
61-05531
- ICNAF** (1960)
Sampl. Yearb. int. Comm. Northw. Atlant. Fish., 3 (1958) : 168 p.
- Gives tables of length and age frequency distributions of samples of cod, haddock and redfish from catches by ICNAF member countries, using various gears. Introduction analysis of sampling distribution and method.
- M
61-05532
- Wooster, W. S. & G. H. Volkmann** (1960)
J. geophys. Res., 65 (4) : 1239-49
 Indications of deep Pacific circulation from the distribution of properties at five kilometers
- A description of the deep Pacific Ocean, based on 145 deep oceanographic stations, is presented, showing the distributions of *in situ* temperature, potential temperature, salinity and dissolved oxygen at a depth of 5 km.
- M
61-05533
- Ambraseys, N. N.** (1960)
J. geophys. Res., 65 (4) : 1257-65
 The seismic sea wave of July 9, 1956, in the Greek Archipelago
- Description of the progression of the wave and its characteristics.
- M
61-05534
- Fleming, R. H.** (1960)
J. geophys. Res., 65 (4) : 1314
 Oceanographic survey of the eastern Chukchi Sea
- Abstr. of paper presented at the Pacific Northwest Regional Meeting, American Geophysical Union, Corvallis, Oregon, 5-6 Nov., 1959.
- F
61-05535
- Bandt, H.-J.** (1959)
Dtsch. Fisch.Ztg., 6 (11) : 321-2
 Wassertrübungen und Fische (Water turbidity and fishes)
- General review.

MF
61-05536**Michailowa, L.** (1959)
Dtsch. FischZtg., 6 (11) : 336-42

Interessante Fischarten aus der Fauna Bulgariens (Interesting species of the Bulgarian fish fauna)

Short description of commercial fish from the inland, coastal and marine waters of Bulgaria.

M
61-05537**Holzlohner, S.** (1959)
Dtsch. FischZtg., 6 (11) : 343-7

Beitrag zur Fauna der Heringsfangplätze der westlichen und nördlichen Nordsee (Contribution to the fauna of herring fishing places of the western and northern North Sea)

Analyses supplementary catch and compares results obtained in 1954 with those of 1958.

M
61-05538**Nolte, W.** (1960)
Allg. FischwirtschaftZtg., 12 (5) : 7-8

Unsere Hochseekutterfischerei (Our deep-sea cutter fisheries)

Statistical review as to composition of fleet and fishing activities.

M
61-05539**Weisse, F. W.** (1960)
Allg. FischwirtschaftZtg., 12 (5) : 9-12

Zur gegenwärtigen Lage der deutschen Krabbenfischerei (On the present situation of the German shrimp fisheries)

Statistics of production and marked demand; discussion on preservation methods in the light of recently established regulations.

F
61-05540**Anon.** (1960)
Allg. FischwirtschaftZtg., 12 (5) : 24-5

Sind Fischtreppen überflüssig? (Are fish ladders superfluous?)

General discussion.

M
61-05541**Hempel, G.** (1960)
Allg. FischwirtschaftZtg., 12 (8) : 12-5

Deutsche und internationale Fischereiforschung (German and international fisheries research)

Reports on the meeting of the German Scientific Commission for the Investigation of the Sea, Hamburg, 4-5 Jan. 1960.

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- G
61-05542
- Odum, H. T.** (1960)
Amer. Scient., 48 (1) : 1-8
Ecological potential and analogue circuits for the ecosystem

Short summary on the energy flow and circulation of material in the aquatic ecosystem and description of the ecological analogue of Ohm's law.

- F
61-05543
- Koops, H.** (1959)
Kurze Mitt. Inst. FischBiol. Univ. Hamburg, (9) : 1-60

Der Quappenbestand der Elbe. Untersuchungen über die Biologie und die fischereiliche Bedeutung der Aalquappe (*Lota lota* (L.)) im Hinblick auf die Auswirkungen des im Bau befindlichen Elbstaudes bei Geesthacht (Investigations of the biology and importance of burbot, *Lota lota* (L.) with special regard to the effects of the Elbe dam which is being constructed near Geesthacht)

Describes growth, feeding and food composition, migration, commercial value and migration; discusses results obtained with special consideration of future aspects.

- M
61-05544
- Wagner, G.** (1959)
Kurze Mitt. Inst. FischBiol. Univ. Hamburg, (9) : 61-103

Untersuchungen über die Tagesperiodizität der Nahrungsaufnahme bei *Pollachius virens* L. (Investigations of the daily periodicity of food intake in *Pollachius virens* L.)

Describes results of investigations of catches off Iceland; distribution of length of fish during the daily catches; stomach contents; behaviour in food intake; composition of diet; gut and gut contents; contents of gall-bladder, acidity; time of food digestion.

- M
61-05545
- Lewin, J. C. & R. A. Lewin** (1960)
Canad. J. Microbiol., 6 (2) : 127-34

Auxotrophy and heterotrophy in marine littoral diatoms

CR.60-1201. 44 pure cultures of marine littoral diatoms—43 pennate and 1 centric—have been studied to determine whether any accessory organic factors are essential for growth in light, and whether the cells can grow in darkness using glucose, acetate, or lactate as substrates.

- F
61-05546
- Keller, P.** (1960)
Hydrobiologia, 14 (3-4) : 205-54

Bacteriological aspects of pollution in the Jukskei-Crocodile River system in the Transvaal, South Africa

Describes investigations dealing almost exclusively with the adventitious—rather than indigenous—bacterial population.

M
61-05547**Austin, A. P.** (1960)*Hydrobiologia*, 14 (3-4) : 255-77Observations on *Furcellaria fastigiata* (L.) Lam. forma *aegagropila* Reinke in Danish waters together with a note on other unattached algal formsF
61-05548**Decloître, L.** (1960)*Hydrobiologia*, 14 (3-4) : 278-80Mise au point de systématique dans le genre *Lesquereusia* (Clarification of the systematic of *Lesquereusia*)Taxonomic note on *L. inaequalis* and *L. i.* var. *inaequalis*.F
61-05549**Oliff, W. D.** (1960)*Hydrobiologia*, 14 (3-4) : 281-385

Hydrobiological studies on the Tugela River system—Part 1. The main Tugela River

Part of a physico-chemical and biological survey of the entire river system—Natal—covering work between Oct. 1953—Jun. 1955. Incl: description of the basin, main river and tributaries; methods of survey, physico-chemical conditions; flora, fauna. Fish are given short mention as they will form subject of a special study.

F
61-05550**Decloître, L.** (1960)*Hydrobiologia*, 14 (3-4) : 386-Mise au point de systématique dans le genre *Diffugia* (Clarification of the systematic of *Diffugia*)

Taxonomic note.

M
61-05551**Anon.** (1960)*Trans. Amer. geophys. Un.*, 41 (1) : 98-104

IGY Bulletin—Oceanographic observations at IGY Wilkes Station, Antarctica

Description of the region, its weather and sea ice conditions, tides, currents and bottom sediments.

M
61-05552**Anon.** (1960)*Trans. Amer. geophys. Un.*, 41 (1) : 107-13

IGY Bulletin—Seismic crustal studies during the IGY—Part 1. Marine program

Preliminary results of seismic studies in several ocean areas.

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- | | |
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| <p>Martin, N. V. (1960)
 <i>Canad. Fish Cult.</i>, 26 : 3-6
 Homing behaviour in spawning lake trout</p> <p>Describes studies on movements of <i>Salvelinus namaycush</i> in a 1,480-acre lake in Ontario to determine whether homing tendencies would prevent them from using new artificial spawning beds. Describes methods used to attract trout to these areas.</p> | <p>F
 61-05553</p> |
| <p>Budd, J. C. & F. E. J. Fry (1960)
 <i>Canad. Fish Cult.</i>, 26 : 7-13
 Further observations on the survival of yearling lake trout planted in South Bay, Lake Huron</p> <p>Summarizes data for 1957 season on results of planting <i>Salvelinus namaycush</i> to repopulate an area from which population had disappeared probably as a result of <i>Petromyzon marinus</i> depredation.</p> | <p>F
 61-05554</p> |
| <p>Christie, W. J. (1960)
 <i>Canad. Fish. Cult.</i>, 26 : 15-21
 Variation in vertebral count in F₂ hybrids of <i>Salvelinus fontinalis</i> × <i>S. namaycush</i></p> <p>Describes methods used in making the counts and measuring the swim-bladders (X-rays of live fish anesthetized with MS222 or tricaine methane sulfonate), as a preliminary to selective breeding to obtain a fish with the 3-year reproductive cycle of <i>S. fontinalis</i> and the benthic propensity of <i>S. namaycush</i>.</p> | <p>F
 61-05555</p> |
| <p>Ryder, R. A. (1960)
 <i>Canad. Fish Cult.</i>, 26 : 23-5
 Comparative tagging returns employing three different anaesthetics</p> <p>Compares relative advantages of ether—ethyl oxide—, urethane—ethyl carbonate—, and MS222—tricaine methane-sulfonate—, during the tagging operations and also compares return of tags. Fish used was <i>Stizostedion v. vitreum</i>; area, Nipigon River, Lake Superior.</p> | <p>F
 61-05556</p> |
| <p>McDonald, J. G. (1960)
 <i>Canad. Fish Cult.</i>, 26 : 27-30
 A possible source of error in assessing the survival of Pacific salmon eggs by redd sampling</p> <p>Describes experiments with <i>Oncorhynchus nerka</i>, to determine conditions under which loss of eggs may occur and extent of loss, using artificially fertilized eggs in boxes of gravel.</p> | <p>MF
 61-05557</p> |

- Baker, M. H. & H. H. Brohm** (1960) G
61-05558
Canad. Fish Cult., 26 : 31-4
 A modified roller press for scale impressions

Describes construction and operation of a jewellers' press in which upper roll is held under constant air pressure to provide good impressions despite differences in slide and scale thickness.

- Wiborg, K. F.** (1960) M
61-05559
Fiskeridir. Skr. Havundersøk., 12 (8) : 18 p.

Investigations on pelagic fry of cod and haddock in coastal and offshore areas of northern Norway in July-August 1957

Observations on the quantitative horizontal distribution of fry, with percentage length distribution and account of stomach content analyses.

- IUCN. Seventh Technical Meeting, Athens, Sept. 1958** (1960) MF
61-05560
 Brussels, 374 p.
 Soil and water conservation—Vol. 4. Natural aquatic resources

Contains 61-05561 to 61-05593.

- D'Ancona, U.** (1960) F
61-05561
In 61-05560 : 7-31

An introduction to the theme and a summary of the background and experience papers

Refers to theme I(d), the influence of soil and water conservation (measures) on natural aquatic resources—a symposium presented at the 7th technical meeting of the IUCN.

- Larkin, P. A.** (1960) F
61-05562
In 61-05560 : 44-52

The effect of various conservational measures or works on the aquatic environment and on the stocks of that environment

CR 60-5461. Describes probable effects of man-made changes by considering knowledge of productivity of aquatic environments, requirements of aquatic organisms, and requirements of fish populations.

- Meehean, O. L.** (1960) MF
61-05563
In 61-05560 : 53-60

Multiple purpose planning for aquatic resources

CR 60-5467. Discusses value of aquatic resources and effect of water-use projects on them; cites in detail two particular situations, Currituck Sound and Roanoke River, as examples of the complex interrelationships between natural resources.

REFERENCES

- MF
61-05564
- Runnstrom, S. (1960)**
In 61-05560 : 61-8
 Hydro-electric power stations and fishing
- CR 60-5472. With special reference to Sweden, describes effect of lake regulation on fish reproduction, food supply, fish growth and fishing; effectiveness of maintaining a stock of salmon, *Salmo salar*, by release of smolts.
- F
61-05565
- Aass, P. (1960)**
In 61-05560 : 69-76
 The effects of impoundment on inland fisheries
- Discusses the effects on: food and growth, propagation, migrations, size and composition of stock, and methods of fishing.
- MF
61-05566
- Somme, S. (1960)**
In 61-05560 : 77-80
 The effects of impoundment on salmon and sea trout rivers
- Discusses effects of barrage dams, water diversion and flow maintenance dams and measures that may be taken to alleviate these ill effects on fisheries.
- MF
61-05567
- McGrath, C. J. (1960)**
In 61-05560 : 81-92
 Dams as barriers or deterrents to the migration of fish
- CR 60-5466. The various ways in which the spawning migration of fish can be impeded, prevented or nullified by dams are discussed with reference to actual experiences with Atlantic salmon in Ireland. Proposals for overcoming some of the difficulties are discussed, in particular the improvement of entrances to fish passes for upstream and downstream migrants.
- MF
61-05568
- Royal, L. A. & A. C. Cooper (1960)**
In 61-05560 : 93-100
 Dams as barriers or deterrents to the migration of fish
- CR 60-5471. A review which emphasizes that a proper stream environment is just as important to the preservation of a fishery as the provision of physical means of continuation of the migration; has special reference to salmonids in streams of western North America.
- F
61-05569
- Wiebe, A. H. (1960)**
In 61-05560 : 101-17
 The effects of impoundments upon the biota of the Tennessee River system
- Describes the character and scope of the Tennessee Valley Authority river development, its mode of operation especially as related to water-level fluctuations and general effects of its series of dams upon invertebrate fauna, the fishery and migratory waterfowl.

- F
61-05570
- Wood, R. & D. W. Pfitzer** (1960)
In 61-05560 : 118-38

Some effects of water-level fluctuations on the fisheries of large impoundments.

CR 60-5481. Reviews concepts and experiments using examples mainly drawn from southeastern USA, which indicate that productivity, sp. composition and ratios of different classes of fish are influenced by water fluctuation.

- F
61-05571
- Maar, A.** (1960)
In 61-05560 : 139-51

Dams and drowned-out stream fisheries in Southern Rhodesia (Federation of Rhodesia and Nyasaland)

CR 60-5465. Describes physico-chemical conditions influencing fisheries, describes the dams and their fisheries and the new Lake Kariba on the Zambesi River.

- F
61-05572
- Damas, H.** (1960)
In 61-05560 : 152-7

Le lac de barrage de la Lufira (The barrage lake of the Lufira River)

CR 60-5456. Discusses with respect to a 400 km² reservoir on a tributary of the Congo River, vegetation, fauna, water chemistry, and sedimentation.

- F
61-05573
- Wales, J. H.** (1960)
In 61-05560 : 158-63

The effects of water diversions on fish

CR 60-5480. Discusses principal effects—reduction of natural stream flow, harmfulness of the conduit to fish, distribution of fish entering diversions—and suggests methods to alleviate harmful effects.

- F
61-05574
- Curtis, B.** (1960)
In 61-05560 : 164-74

Observed changes in a river's physical characteristics under substantial reductions in flow due to hydro-electric diversion

CR 60-0309. Describes a study in northern California aimed at providing factual data as an aid in determining the amount of water to be released at dams for maintenance of aquatic life in the channel below.

- F
61-05575
- Trautman, M. B.** (1960)
In 61-05560 : 175-84

Diversions, canals and conduits—Their role in introducing aquatic organisms into drainage basins where they did not reside formerly

CR 60-5479. As examples, the author uses canals in eastern North America: Welland Canal and the Ohio Canals.

REFERENCES

MF
61-05576

Deelder, C. L. & D. E. Van Drimmelen (1960)
In 61-05560 : 185-90

The decline of the fish-stocks in the Netherlands' sections of the Rivers Rhine and Meuse

CR 60-5460. Describes the effect on stocks of salmon, *Salmo salar* and eel, *Anguilla anguilla*, as a consequence of industrialization and a loss in natural character of the rivers.

F
61-05577

Moretti, G. (1960)
In 61-05560 : 191-204

Influence des ouvrages hydrauliques et des pollutions industrielles sur la faune fluviale de l'Apennin, des Marches et de l'Ombrie (The influence of hydraulic works and industrial pollution on the fluvial fauna of the Apennines, of the Marches and Umbria)

CR 60-5468. Describes: hydrologic characteristics of the river systems of Lombardy and the Marches, Italy; the effects of hydroelectric and irrigation reservoirs, canals and other works of man, on aquatic life; effects of pollution on aquatic fauna.

F
61-05578

Liepoit, R. (1960)
In 61-05560 : 205-14

Die hydrobiologischen Auswirkungen der Gewässerverbauung (The hydrobiological effects of hydraulic works). En

A review of the importance of various physical, chemical and biological factors in the production of aquatic organisms and the changes brought about by different types of engineering works, and of the materials and types of construction which will best benefit bodies of waters from a biological standpoint.

F
61-05579

Liebmann, H. (1960)
In 61-05560 : 236-41

The influence of sewages on fisheries

CR 60-5463. Discusses the following harmful effects of pollutants on fish: toxic, oxygen depletion, shift in biological balance, storage of taste influencing substances in the body.

F
61-05580

Tarzwel, C. M. (1960)
In 61-05560 : 242-52

Effects and control of stream pollution

CR 60-5477. Discusses types of pollutants, their effects on beneficial uses, pollution control and—with special reference to aquatic life—water quality criteria.

F

Lhoste, J. (1960)

61-05581

In 61-05560 : 253-64

Les répercussions de l'emploi des désherbants chimiques sur la faune aquatique (The effects of the chemical control of plants on aquatic fauna)

CR 60-5462. A review of the effects of specific inorganic and organic chemicals.

MF

Muus, B. (1960)

61-05582

In 61-05560 : 265-70

The influence of drainage work and reclamation on stocks in Danish estuarine waters

CR 60-5469. Describes studies of microflora, attached fauna, fish populations and fish catch designed to determine the value of estuaries for the fishing industry.

MF

Dill, W. A. & G. L. Kesteven (1960)

61-05583

In 61-05560 : 271-306

Methods of minimizing the deleterious effects of water- and land-use practices on aquatic resources

CR 582846. Reviews the practical techniques that—applied to environment or stocks—may prevent, alleviate or capitalize on the consequences of environmental changes induced by water- and land-use practices; and presents suggestions as to how the acceptance of these measures can be achieved in the face of conflicting objectives.

MF

Lindroth, A. (1960)

61-05584

In 61-05560 : 308-15

Anadromous fish conservation in a Swedish salmon river

CR 60-5464. Describes the Indalsälven River, its fish and fishing industry, a hydro-electric project which cut off spawning grounds for salmon, *Salmo salar*, seatrout, *S. trutta*, and whitefish, *Coregonus lavaretus*, and the stocking program adopted to overcome this difficulty.

MF

Deelder, C. L. (1960)

61-05585

In 61-05560 : 316-20

Modern fish passes in the Netherlands

CR 60-5459. Describes barriers to fish migration on the Meuse River, faults of present Denil and pool type fish passes, and a new hydraulic fish lock which operates with success.

REFERENCES

MF
61-05586

Deelder, C. L. (1960)
In 61-05560 : 321-2
 Conservation of elver migration routes into the inland water system of the Netherlands

CR 60-5458. Describes a method to allow inward passage of elvers, *Anguilla anguilla*, through a salt water barrier-dam—into fresh water without simultaneous passage of salt water to the freshwater side.

MF
61-05587

van Someren, V. D. (1960)
In 61-05560 : 323-36

Fishery problems created by water utilization projects in Scotland and East Africa

CR 60-5473. Deals with problems affecting Atlantic salmon stocks in Scotland arising from hydro-electric power development of river, and secondly with those affecting commercial river fisheries in Kenya Colony arising from irrigation projects.

MF
61-05588

Stuart, T. A. (1960)
In 61-05560 : 337-45

The influence of drainage works, levees, dykes, dredging, etc. on the aquatic environment and stocks

CR 60-5475. Deals with the consequences to salmonid stocks, their food supplies, shelter, access to and from spawning grounds, following upon drainage activities, etc. Effects of drainage works are examined and compared with conditions obtained in natural systems. The possibility of combining the desirable features of both systems with a view to conservation and improvement of stocks in artificial channels is discussed. Suggestions are made and experiments described which endeavour to achieve this result without interference with, but possibly with benefit to, other legitimate uses of land and water.

MF
61-05589

Clay, C. H. (1960)
In 61-05560 : 346-51

The Okanogan River flood control project

Describes an example of achievement of desired measures of flood control without harm to anadromous fish utilizing the river. The natural environment of the anadromous fish utilizing the river was protected by designing the project to maintain the required physical conditions during the spawning and incubation periods, and by providing ready access over drop structures to the spawning areas above.

- F
61-05590
- Daget, J.** (1960)
In 61-05560 : 352-6
 Effets du barrage de Markala sur les migrations de poissons dans le Moyen-Niger (Effects of Markala Dam on the migrations of fish in the Middle Niger River)
- CR 60-5457. The Markala barrage lake is a great obstacle for fish migration, hence an economic damage to the country. Two fish passages do not solve the problem.
- F
61-05591
- Beauchamp, R. S. A.** (1960)
In 61-05560 : 357-62
 Utilizing the natural resources of Lake Victoria for the benefit of both fisheries and agriculture
- CR 582521. Discusses sulphur deficiencies in the waters and soils of Africa, the importance of maintaining adequate stocks of *Tilapia* in Lake Victoria to maintain fertility, use of bottom muds, etc.
- MF
61-05592
- Worthington, E. B.** (1960)
In 61-05560 : 363-4
 The influence of soil and water conservation on natural aquatic resources
- CR 60-5482. Only a summary of the original paper is presented. It examines some general principles with reference to African catchment basins, especially the Nile.
- F
61-05593
- Pentelow, F. T. K.** (1960)
In 61-05560 : 365-70
 Pollution control and water conservation
- CR 60-5470. Discusses losses of water incl. that caused by water pollution, types of waste waters and their effects, and methods of pollution control.
- M
61-05594
- Beckman, C. & R. Menzies** (1960)
Biol. Bull., Woods Hole, 118 (1) : 9-16
 The relationship of reproductive temperature and the geographical range of the marine woodborer *Limnoria tripunctata*
- Experiments with this sp. of world-wide distribut on.
- M
61-05595
- Boyd, C. M.** (1960)
Biol. Bull., Woods Hole, 118 (1) : 17-30
 The larval stages of *Pleuroncodes planipes* Stimpson (Crustacea, Decapoda, Galatheidæ)
- Describes and ill. material—and experiments with it—from Baja California, Mexico.

REFERENCES

- Crisp, D. J. & B. S. Patel** (1960) M
61-05596
Biol. Bull., Woods Hole, 118 (1) : 31-47
 The moulting cycle in *Balanus balanoides* L.
- Ci 1956 Costlow, J. D., Jr. and C. G. Bookhout. Observations of specimens from *Mytilus* shells, Menai Strait, N. Wales.
- Eppley, R. W. & C. C. Cyrus** (1960) MF
61-05597
Biol. Bull., Woods Hole, 118 (1) : 55-65
 Cation regulation and survival of the red alga, *Porphyra perforata*, in diluted and concentrated sea water
- Hanlon, D. P.** (1960) MF
61-05598
Biol. Bull., Woods Hole, 118 (1) : 79-83
 The effect of potassium deficiency on the free amino acid pattern of the muscle tissue of protein-maintained *Fundulus heteroclitus*
- Aquarium experiments with fish from Oyster River, New Hampshire; analysis by quantitative paper chromatography.
- Ohtsuka, E.** (1960) F
61-05599
Biol. Bull., Woods Hole, 118 (1) : 120-8
 On the hardening of the chorion of the fish egg after fertilization—3. The mechanism of chorion hardening in *Oryzias latipes*
- Ci 59-5077.
- Passano, L. M.** (1960) M
61-05600
Biol. Bull., Woods Hole, 118 (1) : 129-36
 Low temperature blockage of molting in *Uca pugnax*
- Endocrinological study of specimens from a salt marsh in Connecticut.
- Travis, D. F.** (1960) F
61-05601
Biol. Bull., Woods Hole, 118 (1) : 137-49
 The deposition of skeletal structures in the Crustacea—1. The histology of the gastrolith skeletal tissue complex and the gastrolith in the crayfish, *Orconectes (Cambarus) virilis* Hagen—Decapoda
- Oliverreau, M.** (1961) F
61-05602
C.R. Acad. Sci., Paris, 252 (23) : 3660-2
 Maturation sexuelle de l'anguille mâle en eau douce (Sexual maturity of the male eel in fresh water)
- Role of gonadotropic hormones in the maturity of male eel.

MF

61-05603

Allen, K. & J. Awapara (1960)*Biol. Bull., Woods Hole*, 118 (2) : 173-82Metabolism of sulfur amino acids in *Mytilus edulis* and *Rangia cuneata*

Ci 61-02964. Comparative experimental study of marine mussel *Mytilus* which has large amounts of taurine in tissues, and freshwater *Rangia* which has none detectable by paper chromatography, involved administration of S^{35} -methionine, S^{35} -cysteine and S^{35} -taurine.

M

61-05604

Costlow, J. D., Jr., C. G. Bookhout & R. Monroe (1960)*Biol. Bull., Woods Hole*, 118 (2) : 183-202

The effect of salinity and temperature on larval development of *Sesarma cinereum* (Bosc) reared in the laboratory

Ci 60-2095, 60-0207, and 570201. Rearing experiments with crab specimens from Beaufort, N.C., larvae fed with *Artemia* and *Arbacia*. Gives isopleths of mortality rates for salinity and temperature coordinates.

M

61-05605

Costlow, J. D., Jr. & C. G. Bookhout (1960)*Biol. Bull., Woods Hole*, 118 (2) : 203-14

The complete larval development of *Sesarma cinereum* (Bosc) reared in the laboratory

Ci 61-05604.

M

61-05606

Dehnel, P. A. (1960)*Biol. Bull., Woods Hole*, 118 (2) : 215-49

Effect of temperature and salinity on the oxygen consumption of two intertidal crabs

Experiments with *Hemigrapsus oregonensis* and *H. nudus* from near Vancouver.

F

61-05607

Durand, J. B. (1960)*Biol. Bull., Woods Hole*, 118 (2) : 250-61

Limb regeneration and endocrine activity in the crayfish

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Technical descriptions of mounting of transducers in different positions by wooden and iron vessels.

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Ajankohtaista norjalaisista sillintutkimuksista (On the recent Norwegian herring investigations)

A review of the recent Norwegian work on herring and scouting for it.

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Description of a simple electric thermometer and its use.

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A theory of vertical structure of density in the ocean

A theoretical mathematical exercise with various approximations.

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A theory on the generation of tsunamis by an impulse at the sea bottom

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 (Mass stranding of porcupine puffer along the coasts of the Tsushima Current region of the Japan Archipelago—1. Occurrence of the mass stranding by regions). *Ni En*

The season of occurrence of mass stranding of *Diodon holacanthus* by regions is described.

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VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-323me to 61-352me

SCOR (ICSU). 10/9/62 M
61-323me
Bergen, Norway. 5 days
1st Meeting of the working party on fisheries oceanography

British Ecological Society. 11/4/62 MF
61-324me
North Wales, Bangor. 4 days
4th Symposium

ICSU. 21/5/62 G
61-325me
Morges, Switzerland. 2 days
Meeting of planning committee

IMCO. 3/4/62 M
61-326me
London, U.K. 11 days
International conference on prevention of pollution of the sea by oil
Amendment to 61-147me.

FAO. Jun./62 MF
61-327me
Accra, Ghana. 5 days
West African Fisheries Commission

Challenger Society. 27/6/62 M
61-328me
London, U.K. 1 day
Annual general meeting and 214th scientific meeting

Dr. Adrian Richards will give an account of " The birth and development of
Barcena volcano, San Benedicto Is., Mexico and Cape Linhos volcano,
Fayal Island, Azores ".

SCOR (ICSU)/IOC. 30/7/62 M
61-329me
Washington, U.S.A. 4 days
Ad hoc working group on the exchange of oceanographic data

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- FAO.** Aug./62 M
61-330me
Rio de Janeiro, Brazil.
Meeting of the SW Atlantic Fishery Advisory Commission
- SCOR (ICSU)/IOC.** 6/8/62 M
61-331me
Paris, France. 5 days
Ad hoc working group on radio communications
- SCOR (ICSU)/IOC.** 6/8/62 M
61-332me
Paris, France. 5 days
Ad hoc working group on fixed stations
- International Phycological Society.** 19/8/62 MF
61-333me
Madison, Wis., U.S.A. 7 days
2nd Meeting

In conjunction with 61-138me.
- ASLO/AIBS.** 26/8/62 MF
61-334me
Corvallis, Oreg., U.S.A. 6 days
25th Annual meeting

Sessions will incl. symposia on: Sampling and analysis of natural populations and marine basins and fjords.
- U.S. Office of Naval Research.** 27/8/62 M
61-335me
Washington, D.C. 5 days
4th Symposium on naval hydrodynamics
- Royal Meteorological Society/Challenger Society.** 12/9/62 M
61-336me
London, U.K. 1 day
Joint meeting

Contributed papers: A. R. Robinson, "Instability of a thermal ocean circulation", W. H. Munk, "Bispectra of ocean waves".
- FAO/WHO/IAEA.** 17/9/62 G
61-337me
Cincinnati, Ohio, U.S.A. 40 days
International training course on surveys for radionuclides in foods
- SCOR (ICSU).** 17/9/62 M
61-338me
Paris, France. 3 days
2nd Meeting of the executive committee

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- FID.** 24/9/62
Scheveningen, The Hague, Netherlands. 6 days
28th Conference
G
61-339me
- FAO.** Sept.-Oct./62
Rome, Italy.
Working committee on stability of fishing vessels
MF
61-340me
- IPFC.** 8/10/62
Seoul, Korea. 2 days
34th Meeting of the executive committee
MF
61-341me
- ISA.** 15/10/62
New York, U.S.A. 4 days
17th Annual instrument-automation conference and exhibit
G
61-342me
- Designed to aid in plotting the new developments in instrumentation and control. Will display products and application techniques spanning the entire instrumentation technology, including automatic control systems, components, accessories.
- ICSU.** 19/10/62
Prague, Czechoslovakia. 3 days
14th Meeting of the executive committee
G
61-343me
- Delft. Technological University/Netherlands Universities
Foundation for International Cooperation/WHO/OECD.**
22/10/62-7/9/63
Delft, Netherlands.
European course in sanitary engineering
F
61-344me
- CR 61-013me.
- IPFC.** 26/10/62
Seoul, Korea. 1 day
35th Meeting of the executive committee
MF
61-345me
- FAO.** Oct.-Nov./62
Gdansk, Poland. 12 days
Meeting of Government representatives on " Safety of sea "
M
61-346me
- Institute of Economics.** 5/11/62
Bergen, Norway. 26 days
Research seminar on fishery economics
MF
61-347me

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GCFI. 12/11/62 M
Galveston, Texas, U.S.A. 5 days 61-348me
15th Meeting

Amendment to 61-236me.

FAO. 12/11/62 F
Rome, Italy. 6 days 61-349me
Conference on pesticides in agriculture

FAO. 12/11/62 MF
Tunis. 6 days 61-350me
1st Meeting of the West African Fisheries Commission

IAEA. 21/11/62 M
Vienna, Austria. 3 days 61-351me
Meeting of panel on co-ordination of research contracts on radioactivity in
the marine environment

FAO. 27/5/63 MF
London, U.K. 5 days 61-352me
2nd International fishing gear congress

Amendment to 61-238me.

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TA 16 (2) i330. Abnormal weather conditions in recent years with long periods of drought have accelerated the necessity to develop water resources, construct new dams and irrigation systems and sink more boreholes. Data on fisheries and fish processing.

- M
61-05769
- Salazar, F. M.** (1960)
Agricultor venezol., 24 (218) : 18-21
Laboratorio de biología pesquera (Laboratory of marine biology)

TA 16 (2) i510. President of Venezuela inaugurated on 28 May 1960 at Caigüire (Sucre) the new laboratory of the Ministry of Agriculture. Its task is to conduct research on fish resources, as a basis for their rational exploitation. Details of research programme.

- MF
61-05770
- Lanyon, W. E. & W. N. Tavalga** (Ed.) (1960)
Washington, D.C., American Institute of Biological Sciences, Publ. No. 7, 443 p.
Animal sounds and communication

Contains 61-05771 and 61-05772. Proceedings of Symposium held at AIBS meetings in 1958. Incl. papers on techniques in recording sound for bio-acoustic studies, and sound production in fishes. Incl. with the volume a standard 12 inch LP record which ill. principles discussed.

- G
61-05771
- Kellogg, P. P.** (1960)
In 61-05770 : 1-25
Considerations and techniques in recording sound for bio-acoustics studies

Deals with equipment and field techniques in recording, editing recorded tapes, cataloguing and storing recorded materials and maintenance of equipment.

- MF
61-05772
- Tavalga, W. N.** (1960)
In 61-05770 : 93-136
Sound production and underwater communication in fishes

Presents specific examples of types of mechanisms and attendant behaviours involved in sound production, and indicates possible approaches to studies in this area. Reports recently acquired data on *Centropristes striatus*, *Epinephalus striatus*, *Mycteroperca bonaci*, *Bagre marinus* and *Galeichthys felis*.

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Bohlke, J. E. & C. R. Robins (1960) M
61-05773
Proc. Acad. nat. Sci. Philad., 112 (4) : 73-101

Western Atlantic gobioid fishes of the genus *Lythrypnus*, with notes on *Quisquilius hipoliti* and *Garmannia pallens*

Redescribes some hitherto briefly diagnosed gobiid fishes from the tropical western Atlantic. A key to the spp. of *Lythrypnus* is given. Issued also as: *Contr. Mar. Lab. Univ. Miami*, (270).

Hutton, R. F. & F. Sogandares-Bernal (1960)* M
61-05774
Trans. Amer. micr. Soc., 79 (3) : 287-92

A list of parasites from marine and coastal animals of Florida

Mills, D. H. (1960)* MF
61-05775
Scot. Birds, 1 (9)

Hooded crow and red-necked grebe as predators of salmon

Argentina. Laws, Statutes, etc. (1960) MF
61-05776
Bol. ofic., Argentina, (19.260) : 2

Decreto N° 6526, por el cual se asigna a la jurisdicción de la Secretaría de Estado de Agricultura y Ganadería el Consejo Nacional de Pesquería (Decree No. 6526, placing under the jurisdiction of the Secretariat of State for Agriculture and Stockbreeding the National Fisheries Council)—7 June 1960

Ad 60-1298. Established by decree No. 7258/59.

Argentina. Laws, Statutes, etc. (1960) MF
61-05777
Bol. ofic., Argentina, (19.319) : 1-2

Decreto No. 9972 por el cual se actualizan los derechos y tasas establecidos por el decreto 15.501/53 sobre caza y protección de la fauna y por decreto 125.258/38 reglamentario de la caza de ballenas (Decree No. 9972, bringing up to date the fees and taxes established by decree No. 15.501/53 on hunting and wildlife protection and by decree No. 125.258/38 regulating whale hunting)—24 August 1960

Argentina. Laws, Statutes, etc. (1960) M
61-05778
Bol. ofic., Argentina, (19.322) : 7

Decretos Nos. 10.033 y 10.034 dictando normas de protección a la industria naval nacional (Decrees Nos. 10.033 and 10.034, prescribing measures for the protection of the national shipbuilding industry)—26 August 1960

Decree No. 10.034 in particular appropriates funds for fishing craft construction subsidies.

Australia. Laws, Statutes, etc. (1960) MF
61-05779
Stat. Rules, Aust., (37) : 1 p.

Regulation under the customs act 1901-1959 and the commerce (trade descriptions) act 1905-1950. Amendment of the exports (fish) regulations.—3 June 1960

Minor amendment of figures.

New South Wales. Laws, Statutes, etc. (1960) MF
61-05780
Govt Gaz., N.S.W., (105) : 2842

Proclamation made under the fisheries and oyster farms act, 1935, as amended, relating to the waters of Lakes Macquarie and Eraring, Mannering Hole, Duck Hole Lagoon, Little Lake and Muddy Lake—County of Northumberland.—17 August 1960

Prohibits the taking of fish by means of nets of every description other than the prescribed dip or scoop net and the 20 foot hand hauled net, in the specified tidal waters, from 1 Sep. 1960 to 31 Aug. 1963.

New South Wales. Laws, Statutes, etc. (1960) MF
61-05781
Govt Gaz., N.S.W., (105) : 2842-3

Proclamation made under the fisheries and oyster farms act, 1935, as amended, relating to a portion of the waters of Byron Bay, County of Rous.—17 August 1960

Prohibits the taking of fish by means of nets of every description, in the specified tidal waters, from 1 Sep. 1960 to 31 Aug. 1965. Exception is made for the capture of mullet and tailer.

New South Wales. Laws, Statutes, etc. (1960) F
61-05782
Govt Gaz., N.S.W., (111) : 2931-2

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Lake Victoria, Rufus River and Frenchman's Creek, in the County of Tara.—24 August 1960

Prohibits the taking of fish by the methods set forth in schedules A to D in the specified inland waters from 1 Sep. 1960 to 31 Aug. 1965.

New South Wales. Laws, Statutes, etc. (1960) F
61-05783
Govt Gaz., N.S.W., (114) : 2992

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Namoi River, Counties of Nandewar, White, Denham, Baradine, Jamison, Darling, Inglis, Pottinger, Buckland, Parry and Vernon.—31 August 1960

Prohibits the taking of fish by all methods other than a single rod and line or handline in the specified inland waters from 1 Sep. 1960 to 31 Aug. 1965.

REFERENCES

F

New South Wales. Laws, Statutes, etc. (1960) 61-05784
Govt Gaz., N.S.W., (116) : 3072

Proclamation under the fisheries and oyster farms act, 1935-1960, relating to a portion of the waters of Richmond River, Counties of Richmond and Rous.—7 September 1960

Prohibits the taking of fish by means of nets of every description in the specified inland waters from 1 Dec. in each of the years 1960, 1961, 1962, 1963 and 1964, until 31 Mar. in each of the following years, all dates incl.

F

New South Wales. Laws, Statutes, etc. (1960) 61-05785
Govt Gaz., N.S.W., (116) : 3072

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Lachlan River at Jemalong Weir, in the Counties of Forbes and Cunningham.—7 September 1960

Prohibits the taking of fish by all methods in the specified inland waters, from 1 Jan. 1961 to 31 Dec. 1965.

F

New South Wales. Laws, Statutes, etc. (1960) 61-05786
Govt Gaz., N.S.W., (116) : 3072-3

Proclamation made under the fisheries and oyster farms act, 1935-1960, relative to the waters of the Lachlan River at Kiacatoo and Booberoi Weirs, in the Counties of Cunningham, Gipps, Blaxland and Dowling.—14 September 1960

Prohibits the taking of fish by all methods in the inland waters specified in schedules A and B, from 1 Jan. 1961 to 31 Dec. 1965.

F

New South Wales. Laws, Statutes, etc. (1960) 61-05787
Govt Gaz., N.S.W., (116) : 3073

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to a portion of the waters of Lachlan River, in the Counties of Cunningham, Gipps, Dowling and Blaxland.—14 September 1960

Prohibits the taking of fish by all methods in the portion of inland waters specified in schedules A from 1 Jan. 1961 to 31 Dec. 1965, and by certain methods in the portion of inland waters specified in schedule B during the same period.

F

New South Wales. Laws, Statutes, etc. (1960) 61-05788
Govt Gaz., N.S.W., (121) : 3247

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Lake Macquarie entrance, County of Northumberland.—28 September 1960

Prohibits in the specified tidal waters the taking of fish by means of spears, spearguns, and similar devices, from 1 Oct. 1930 to 30 Sep. 1965.

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F

New South Wales. Laws, Statutes, etc. (1960)

61-05789

Govt Gaz., N.S.W., (121) : 3248

Proclamation made under the fisheries and oyster farms act, 1935-1960.—28 September 1960

Prohibits the taking of fish by the methods of fishing set forth in the schedules, in the specified inland waters, from 1 Dec. 1960 to 30 Nov. 1965.

M

New South Wales. Laws, Statutes, etc. (1960)

61-05790

Govt Gaz., N.S.W., (121) : 3248

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of the Inner Harbour of Port Kembla, County of Camden.—28 September 1960

Prohibits the taking of fish by all methods, in the specified tidal waters, from 1 Oct. 1960 to 30 Sep. 1965.

M

New South Wales. Laws, Statutes, etc. (1960)

61-05791

Govt Gaz., N.S.W., (124) : 3308

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Lady Robinson's Beach, County of Cumberland. 28 September 1960

Prohibits in the specified tidal waters, the taking of prawns by means of certain prawn nets, from 1 May to 30 Nov. in each of the years 1961-1965.

MF

New South Wales. Laws, Statutes, etc. (1960)

61-05792

Govt Gaz., N.S.W., (124) : 3308

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Nambucca River and Warrell Creek, County of Raleigh.—28 September 1960

Prohibits the taking of fish, in the specified tidal and inland waters, by nets of every description other than certain prawn nets, from 12 noon on Friday to 12 noon on Sunday in each week from 1 Feb. 1961 to 31 Jan. 1966.

F

New South Wales. Laws, Statutes, etc. (1960)

61-05793

Govt Gaz., N.S.W., (124) : 3308

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Hastings River, County of Macquarie.—28 September 1960

Prohibits the taking of fish by means of nets of every description, in the specified waters, from 23 Feb. 1961 to 22 Feb. 1966.

REFERENCES

F
61-05794

South Australia. Laws, Statutes, etc. (1960)
S. Aust. Govt Gaz., (40) : 845
 Fisheries act, 1917-1957: crayfish—variation of proclamations.—29 September 1960

Minor amendments to the proclamations published in *Govt Gaz.* of 11 Mar. 1937, 8 Aug. 1957, and 11 Sep. 1947.

MF
61-05795

Tasmania. Laws, Statutes, etc. (1959)
 Act No. 16, 39 p.
 Fisheries act, 1959: an act to consolidate and amend the law relating to fisheries.—21 August 1959

Extensive regulations affecting sea fisheries, salmon and freshwater fisheries, water pollution, controlling bodies, etc. Repeals: fisheries act 1935 (26 Geo. V No. 37); fisheries act, 1958 (No. 10 of 1958); fisheries act (No. 2), 1958 (No. 54 of 1958).

MF
61-05796

Tasmania. Laws, Statutes, etc. (1959)
 Act No. 61, 2 p.
 Fisheries act (No. 2), 1959: an act to amend the fisheries act 1959.—9 December 1959

Ad 61-05795. Short amendment relating to interpretation, wording and transitory provisions of sections 2, 3 and 4.

F
61-05797

Tasmania. Laws, Statutes, etc. (1960)
Stat. Rules, Tasm., (119) : 12 p.
 Inland fisheries regulations, 1960, made under the fisheries act, 1959

Extensive regulations relative to entitlements and authorized methods of fishing, licences, prohibitions, penalties, etc. Rescinds: statutory rules No. 103 of 1956, No. 91 of 1957, No. 116 and No. 130 of 1958, and No. 110 of 1959.

F
61-05798

Austria. Laws, Statutes, etc. (1960)
BundGesBlatt Rep. Österreich, 57 St., text 198 : 2001-9
 Verordnung des Bundesministeriums für Finanzen vom 5. Oktober 1960, mit der die Gegenstände bestimmt werden, für die eine Ausgleichsteuer nicht eingehoben wird (Freiliste 1) (Ordinance of the Federal Ministry of Finance establishing the commodities not subject to compensation tax (free list 1).—5 October 1960)

The list specifies various agricultural and animal products, incl. fish.

M

Canada. Laws, Statutes, etc. (1960)

61-05799

Can. Gazette (II), (15) : 1043

Statutory orders and regulations 1960-351. Clam fishing order made pursuant to the New Brunswick fishery regulations under the fisheries act.—15 July 1960

No one shall fish for, take or possess clams in the shellfish areas along the coast and waters of the County of Charlotte and the islands adjacent thereto, for the purpose of bait, food or for canning.

M

Canada. Laws, Statutes, etc. (1960)

61-05800

Can. Gazette (II), (15) : 1078

Décrets, ordonnances et règlements statutaires 1960-351. Avis concernant la pêche aux clams, en vertu du règlement de pêche du Nouveau-Brunswick selon la loi sur les pêcheries.—15 juillet 1960 (Statutory orders and regulations 1960-351. Clam fishing order made pursuant to the New Brunswick fishery regulations under the fisheries act.—15 July 1960)

Fr 61-05799.

M

Canada. Laws, Statutes, etc. (1960)

61-05801

Can. Gazette (II), (15) : 1016

SOR/60-335. Order in council P.C. 1960-991 amending the lobster fishery regulations made pursuant to the fisheries act.—21 July 1960

Gives a new description of lobster fishery district No. 8.

M

Canada. Laws, Statutes, etc. (1960)

61-05802

Can. Gazette (II), (15) : 1051

DORS/60-335. Décret C.P. 1960-991 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—21 juillet 1960 (SOR/60-335. Order in council P.C. 1960-991 amending the lobster fishery regulations made pursuant to the fisheries act.—21 July 1960)

Fr 61-05801.

MF

Canada. Laws, Statutes, etc. (1960)

61-05803

Can. Gazette (II), (15) : 1021

SOR/60-339. Order in council P.C. 1960-1021 amending the British Columbia fishery regulations, made pursuant to the fisheries act.—28 July 1960

For the year 1960 only, salmon may be fished for, caught or killed by means of nets after the 15th day of September in that portion of the Fraser River between New Westminster Bridge and Mission Bridge.

REFERENCES

- MF
61-05804
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (15) : 1056
 DORS/60-339. Décret C.P. 1960-1021 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—28 juillet 1960 (SOR/60-339. Order in council P.C. 1960-1021 amending the British Columbia fishery regulations, made pursuant to the fisheries act.—28 July 1960)
Fr 61-05803.
- MF
61-05805
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (16) : 1081
 SOR/60-363. Order in council P.C. 1960-1056 amending the British Columbia fishery regulations made under the fisheries act.—4 August 1960
 The amendments relate to crab, herring and salmon fishing, size of trawl-nets, sport fishing in tidal waters, and to the description of various fishing areas.
- MF
61-05806
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (16) : 1117
 DORS/60-363. Décret C.P. 1960-1056 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—4 août 1960 (SOR/60-363. Order in council P.C. 1960-1056 amending the British Columbia fishery regulations made under the fisheries act.—4 August 1960)
Fr 61-05805.
- MF
61-05807
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (16) : 1164
 SOR/60-373. Order in Council P.C. 1960-1091 amending the New Brunswick fishery regulations, made pursuant to the fisheries act.—11 August 1960
 New regulation on fishing with a mechanical digger.
- MF
61-05808
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (16) : 1209
 DORS/60-373. Décret C.P. 1960-1091 modifiant le règlement de pêche du Nouveau-Brunswick en vertu de la loi sur les pêcheries.—11 août 1960 (SOR/60-373. Order in council P.C. 1960-1091 amending the New Brunswick fishery regulations, made pursuant to the fisheries act.—11 August 1960)
Fr 61-05807.
- MF
61-05809
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (16) : 1165
 SOR/60-374. Order in council P.C. 1960-1092 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—11 August 1960
 The amendments relate to fishing with a mechanical digger and to eel fishing in Queens County.

- MF
61-05810
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (16) : 1210

DORS/60-374. Décret C.P. 1960-1092 modifiant le règlement de pêche de la Nouvelle-Écosse en vertu de la loi sur les pêcheries.—11 août 1960 (SOR/60-374. Order in council P.C. 1960-1092 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—11 August 1960)

Fr 61-05809.

- MF
61-05811
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (16) : 1166

SOR/60-375. Order in council P.C. 1960-1093 amending the Prince Edward Island fishery regulations.—11 August 1960

New regulation on fishing with a mechanical digger.

- MF
61-05812
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (16) : 1211

DORS/60-375. Décret C.P. 1960-1093 modifiant le règlement de pêche de l'Île du Prince-Édouard, en vertu de la loi sur les pêcheries.—11 août 1960 (SOR/60-375. Order in council P.C. 1960-1093 amending the Prince Edward Island fishery regulations.—11 August 1960)

Fr 61-05811.

- MF
61-05813
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (17) : 1249

SOR/60-411. Shellfishing order pursuant to the Nova Scotia fishery regulations made under the fisheries act.—15 August 1960

Shellfish area N.S. 30, the Neck, in Nova Scotia, is closed; no person shall fish for, take or possess shellfish from the said area for the purpose of bait, food or for canning.

- MF
61-05814
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (17) : 1296

DORS/60-411. Avis relatif à la pêche aux coquillages en vertu du règlement de pêche de la Nouvelle-Écosse selon la loi sur les pêcheries.—15 août 1960 (SOR/60-411. Shellfishing order pursuant to the Nova Scotia fishery regulations made under the fisheries act.—15 August 1960)

Fr 61-05813.

- MF
61-05815
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (18) : 1263

SOR/60-424. Order in council P.C. 1960-1218 amending the New Brunswick fishery regulations, pursuant to the fisheries act.—8 September 1960

Replaces section 83 on fishing in the County of Northumberland.

REFERENCES

MF

61-05816

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (18) : 1311

DORS/60-424. Décret C.P. 1960-1218 modifiant le règlement de pêche du Nouveau-Brunswick, en vertu de la loi sur les pêcheries.—8 septembre 1960 (SOR/60-424. Order in council P.C. 1960-1218 amending the New Brunswick fishery regulations, pursuant to the fisheries act.—8 September 1960)

Fr 61-05815.

M

61-05817

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (18) : 1264

SOR/60-425. Order in council P.C. 1960-1219 amending the Quebec fishery regulations, pursuant to the fisheries act.—8 September 1960

The Minister of Fisheries may authorize the use in any area that he considers unworkable by hand-tools of any mechanical apparatus for fishing or taking soft-shell clams that in his opinion will not unduly decrease the number of clams in that area.

M

61-05818

Canada. Laws, Statutes, etc. (1960).

Can. Gazette (II), (18) : 1312

DORS/60-425. Décret C.P. 1960-1219 modifiant le règlement de pêche du Québec en vertu de la loi sur les pêcheries.—8 septembre 1960 (SOR/60-425. Order in council P.C. 1960-1219 amending the Quebec fishery regulations, pursuant to the fisheries act.—8 September 1960)

Fr 61-05817.

MF

61-05819

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (19) : 1304

SOR/60-448. Order in council P.C. 1960-1294, amending the Nova Scotia fishery regulations, pursuant to the fisheries act.—22 September 1960

Revokes section 51 on salmon fishing in upper prospect district, County of Halifax.

MF

61-05820

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (19) : 1352

DORS/60-448. Décret C.P. 1960-1294 modifiant le règlement de pêche de la Nouvelle-Écosse, en vertu de la loi sur les pêcheries.—22 septembre 1960 (SOR/60-448. Order in council P.C. 1960-1294, amending the Nova Scotia fishery regulations, pursuant to the fisheries act.—22 September 1960)

Fr 61-05819.

M

61-05821

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (21) : 1402

SOR/60-498 setting apart the Malpeque Bay areas, P.E.I., for the propagation of fish pursuant to section 48 of the fisheries act.—14 October 1960

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M
61-05822

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1452

DORS/60-498 mettant à part les secteurs de la baie Malpèque (I.P.E.) pour la propagation du poisson, en vertu de l'article 48 de la loi sur les pêcheries.—14 octobre 1960 (SOR/60-498 setting apart the Malpeque Bay areas, P.E.I., for the propagation of fish pursuant to section 48 of the fisheries act.—14 October 1960)

Fr 61-05821.

M
61-05823

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1401

SOR/60-497. Shellfishing order pursuant to the New Brunswick fishery regulations, made under the fisheries act.—18 October 1960

Re-opening of certain shellfish areas for the taking of clams for the purpose of bait, food or canning.

M
61-05824

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1451

DORS/60-497 relatif à la pêche aux coquillages en vertu du règlement de pêche du Nouveau-Brunswick, selon la loi sur les pêcheries.—18 octobre 1960 (SOR/60-497. Shellfishing order pursuant to the New Brunswick fishery regulations, made under the fisheries act.—18 October 1960)

Fr 61-05823.

MF
61-05825

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1373

SOR/60-484. Order in council 1960-1437 amending the fish inspection regulations pursuant to the fish inspection act.—20 October 1960

Concerns the packing of oysters in the shell.

MF
61-05826

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1423

DORS/60-484. Décret C.P. 1960-1437 modifiant le règlement sur l'inspection du poisson en vertu de la loi sur l'inspection du poisson.—20 octobre 1960 (SOR/60-484. Order in council 1960-1437 amending the fish inspection regulations pursuant to the fish inspection act.—20 October 1960)

Fr 61-05825.

M
61-05827

Canada. Laws, Statutes, etc. (1960)
Statutes, Canada, 8-9 Eliz. II, vol. 1, chapter 15 : 71

An act to repeal certain fisheries laws of Newfoundland.—27 May 1960

The fisheries laws of Newfoundland as defined in paragraph (1) of term 22 of the terms of union of Newfoundland with Canada and all orders, rules and regulations made thereunder, in force at the commencement of this act, are repealed.

REFERENCES

- MF
61-05828
- Manitoba. Laws, Statutes, etc. (1960)**
Statutes, Manitoba, 8-9 Eliz. II, chapter 15 : 75-7
 An act to amend the game and fisheries act.—26 March 1960
- Concerns offences and penalties.
- M
61-05829
- Ceylon. Laws, Statutes, etc. (1960)**
Ceylon Govt Gaz., extr., (12,220) : 1773
 Order made under section 4 (2) of the food supplies ordinance, No. 30 of 1947, as amended by food supplies (amendments) acts, No. 7 of 1955 and No. 30 of 1957.—2 October 1960
- Amends the schedule to the said ordinance, by the addition of "Maldivé" fish, bonito dried fish and any other similar variety and/or preparation of fish.
- MF
61-05830
- Denmark. Laws, Statutes, etc. (1960)**
Lovtidende B, (1) : 270 p.
 Finanslov for finansåret fra 1. april 1960 til 31. marts 1961.—31 marts 1960 (Finance act No. 1 for the financial year from 1 April 1960 to 31 March 1961.—31 March 1960)
- Specifies *inter alia* under section 12 allocations for various activities in fisheries.
- F
61-05831
- Denmark. Laws, Statutes, etc. (1960)**
Lovtidende A, (23) : 1127
 Anordning Nr. 274 om udlændinges adgang til at drive lystfiskeri på dansk søterritorium. (Ordinance No. 274 relative to facilities for aliens to conduct sport fishing in Danish lake waters.—29 June 1960)
- With the exception of citizens of Scandinavian countries, aliens must have written permission from the local fisheries control station.
- M
61-05832
- France. Laws, Statutes, etc. (1960)**
J. off. Rép. franç., (157) : 6216
 Arrêté du 27 juin 1960 relatif au conseil de l'importation des produits de la pêche maritime (Order relating to the council of imports of sea fisheries products.—27 June 1960)
- Members of the council to hold office for three years.
- M
61-05833
- France. Laws, Statutes, etc. (1960)**
J. off. Rép. franç., (168) : 6679
 Arrêté du 8 juillet 1960 portant réglementation de l'emploi des filets tournants et coulissants dénommés "seincholes" dans les eaux de la direction de l'inscription maritime de Marseille (Order regulating the use of swivel and slide nets known as "seincholes" in the waters under the jurisdiction of the directorate of the maritime region of Marseille.—8 July 1960)

M

Guadeloupe. Laws, Statutes, etc. (1960)

61-05834

Rec. Actes adm., Guadeloupe, (42) : 565-6

Arrêté n° 60-1.827 portant application en Guadeloupe du statut du mareyage.—15 octobre 1960 (Order No. 60-1.827 relative to the application in Guadeloupe of the regulations governing the exercise of the fish trade.—15 October 1960)

Definition and extensive regulations relating to the profession of fish-mongers.

M

Greece. Laws, Statutes, etc. (1960)

61-05835

Ephem. Kub., Greece, 1 (46) : 512

(Decision No. 647/60 of the credit commission relating to the financing of salting enterprises.—26 March 1960). *He*

Relates in particular to credits for enterprises salting domestic and imported fish during certain periods.

M

Greece. Laws, Statutes, etc. (1960)

61-05836

Ephem. Kub., Greece, 1 (90) : 872

(Royal decree No. 409, relating to the preparation and classification of salted sardines and anchovies for local consumption and export.—11 June 1960). *He*

MG

Guatemala. Laws, Statutes, etc. (1960)

61-05837

Guatemalteco, (62) : 777-8

Acuerdo por el que se autoriza el ingreso al país, de toda clase de impuestos arancelarios u otros tributos, de los artículos y productos originarios de Belice (Executive order authorizing entry into the country, free of customs duties and charges of any kind, of articles and products originating in Belice.—2 August 1960)

MG

Guatemala. Laws, Statutes, etc. (1960)

61-05838

Guatemalteco, (62) : 778

Acuerdo por el que quedan libres de derechos arancelarios y de cualquier gravamen a la importación los productos originarios de Belice que se clasifican en las fracciones arancelarias que se mencionan (Executive order, freeing from customs duties and any other import charge imports of products originating in Belice classified in stated sections of the customs tariff.—2 August 1960)

Inc. fish and fish products, crustaceans and molluscs.

MF

Iraq. Laws, Statutes, etc. (1960)

61-05839

Wkly Gaz. Rep. Iraq, (39) : 861-4

Government notification No. 641 : law No. 30 of 1960, on the ratification of the trade agreement and related letters between the Iraqi Republic and the Tunisian Republic.—14 February 1960

Imports incl. fish.

REFERENCES

- MF
61-05840
- Ireland. Laws, Statutes, etc. (1960)**
Iris Oifigiúil, (38) : 522
 Ballyshannon district bye-law No. 503, 1960, made under the fisheries (consolidation) act, 1959.—6 May 1960

Prohibits fishing for salmon or trout with any fishing engine other than rod and line in the tidal waters of the River Erne.

- MF
61-05841
- Madagascar. Laws, Statutes, etc. (1960)**
J. off. Rep. malgache, (127) : 2066-9

Ordonnance No. 60-126 du 3 octobre 1960, fixant le régime de la chasse, de la pêche et de la protection de la faune (Ordinance No. 60-126, fixing regulations for hunting, fishing and wildlife protection.—3 October 1960)

Extensive regulations. Title II concerns fishing in fresh and saline waters.

- MF
61-05842
- Morocco. Laws, Statutes, etc. (1960)**
Bull. off. Emp. chérif., (2506) : 1901, 1922

Arrêté du ministre du travail et des questions sociales n° 742-60 du 4 août 1960 fixant le taux de base des salaires pour le calcul des rentes du personnel de la pêche rémunéré à la part, victime d'un accident de travail (Order No. 742-60 fixing base salary rates for the computation of the rent due to fishing personnel remunerated on a share basis and victim of a work accident.—4 August 1960)

- MF
61-05843
- Madagascar. Laws, Statutes, etc. (1960)**
J. off. Rep. malgache, (127) : 2072-5

Ordonnance No. 60-128 du 3 octobre 1960, fixant la procédure applicable à la répression des infractions à la législation forestière, de la chasse, de la pêche et de la protection de la nature (Ordinance No. 60-128 fixing the procedure applicable for the suppression of infractions of the hunting, fishing and protection of nature legislation.—October 1960)

Extensive regulations.

- MF
61-05844
- Madagascar. Laws, Statutes, etc. (1960)**
J. off. Rep. malgache, (130) : 2321-2

Arrêté No. 1794 du 22 octobre 1960, fixant les conditions dans lesquelles sont accordées les autorisations d'établissements de pêcheries et parcs à huitres, à moules et autres coquillages (Order No. 1794, fixing conditions governing the granting of authorizations for the establishment of fishing grounds, oyster, mussel and other shellfish beds.—22 October 1960)

Sets up regional commissions.

M

Morocco. Laws, Statutes, etc. (1960)

61-05845

Bull. off. Emp. chérif., (2492) : 1468-9, 1503

Arrêté du ministre de l'économie nationale et des finances n° 668-60 du 13 juillet 1960 fixant pour la campagne 1960-1961 les conditions d'application du dahir du 8 janvier 1957 conférant la garantie partielle de l'État aux avances bancaires consenties sur les conserves de sardines (Ministerial order No. 668-60 fixing for the 1960-1961 season the conditions of application of the dahir of 8 January 1957 granting partial State guarantee to bank advances on canned sardines.—13 July 1960)

MF

Morocco. Laws, Statutes, etc. (1960)

61-05846

Bull. off. Emp. chérif., (2492) : 1452-9, 1487-94

Dahir n° 1-60-092 du 21 juillet 1960 portant réglementation de la taxe sur les transactions. (Dahir No. 1-60-092 prescribing regulations for the transaction tax.—21 July 1960)

Imposes various fisheries products and equipment with the said tax.

MF

Morocco. Laws, Statutes, etc. (1960)

61-05847

Bull. off. Emp. chérif., (2492) : 1460-3, 1495-9

Arrêté du ministre de l'économie nationale et des finances n° 416-60 du 21 juillet 1960 relatif à l'application de certaines dispositions du dahir n° 1-60-092 du 21 juillet 1960 portant réglementation de la taxe sur les transactions (Order No. 416-60 relative to the application of certain provision of dahir No. 1-60-092 of 21 July 1960 prescribing regulations for the transactions tax.—21 July 1960)

Ad 61-05846. Affects *inter alia* fishing nets.

F

Netherlands. Laws, Statutes, etc. (1960)

61-05848

Staatscourant, Neth., (37) : 7

Ontheffing gesloten tijd voor zeelt 19 februari 1960/nr. Vi. 361/Directie van de Visserijen (Order No. Vi. 361/Directie v.d. Visserijen issued by the Minister of Agriculture and Fisheries specifying exemption from the closed season for fisheries in respect of tench.—19 February 1960)

MF

Netherlands. Laws, Statutes, etc. (1960)

61-05849

Staatsblad, Neth., text 238 : 719-23

Besluit van 3 juni 1960, houdende instelling van een bedrijfsschap voor de visconservenindustrie (Instellingsbesluit bedrijfsschap visconservenindustrie) (Decree establishing a corporative association for the canned fish industry.—3 June 1960)

The decree is accompanied by an explanatory note, a notice of the economic and social council, and other annexes.

REFERENCES

MF
61-05850

Netherlands. Laws, Statutes, etc. (1960)
Staatscourant, Neth., (111) : 7

Onttrekking Gedeelte Waddenzee aan de Openbare Visserij 9 juni 1960/Nr. Vi. 2109/Directie van de Visserijen (Order No. Vi. 2109/Directie v.d. Visserijen issued by the Minister of Agriculture and Fisheries closing off a part of the Waddenzee to public fishing)

The above measure is taken in order to provide for shellfish breeding in the area which is located on the outer gulf of the Zuiderzee.

M
61-05851

New Zealand. Laws, Statutes, etc. (1959)
6 p. (separate)

Fisheries amendment act 1959 : act No. 8 of 1959 to amend the fisheries act 1908.—24 September 1959

Amendments relate to destruction of aged, sick or troublesome seals and to licensing of fishermen.

F
61-05852

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/170, 2 p.

Modification notice 1959 to amend the freshwater fisheries regulations 1951 (under the fisheries act 1908) with respect to Hawera, Stratford, and Taranaki districts.—14 October 1959

Modifies the provisions of the general regulations in the above districts, by reducing the limit bag, increasing the size limit, imposing restrictions on lures and methods of fishing in certain waters, and prohibiting fishing in the Egmont National Park except in specified waters.

MF
61-05853

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/167, 3 p.

Modification notice 1959 to amend the freshwater fisheries regulations 1951 (under the fisheries act 1908) with respect to Marlborough and Nelson districts.—14 October 1959

Modifies the provisions of the general regulations for the above districts by reducing the number of salmon and trout in a limit bag to ten, by increasing the size limit to 12 inches, except in the Maitai River where it is increased to 10 inches, by imposing restrictions on lures and methods in specified waters and by prohibiting fishing in Lake Daniells during the month of October.

F
61-05854

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/168, 2 p.

Modification notice 1959 to amend the freshwater fisheries regulations 1951 (under the fisheries act 1908) with respect to Bay of Islands, Hobson, Mangonui-Whangaroa, and Whangarei districts.—14 October 1959

Modifies the provisions of the general regulations for the subject districts by modifying the limit bag and size limit and imposing restrictions on lures and methods of fishing in specified waters.

F
61-05855

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/169, 2 p.

Modification notice 1959 to amend the freshwater fisheries regulations 1951 (under the fisheries act 1908) with respect to Waimarino district.—14 October 1959

Modifies the provisions of the general regulations in the above district by restricting the lures and methods that may be used in certain waters.

F
61-05856

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/186, 9 p.

Amendment No. 5 to the fisheries (general) regulations 1950, pursuant to the fisheries act 1908.—25 November 1959

Amends certain definitions, and several provisions relating to crayfish.

F
61-05857

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/206, 16 p.

The Rotoaira trout fishing regulations 1959, pursuant to Part 1 of the Maori purpose act 1959.—16 December 1959

These regulations incl. provisions relating to the issue of entry permits, the restrictions on the times and methods of fishing, pollution of waters, possession of and dealing in trout, storage of trout in freezing chambers, canning, smokehouses, etc.

F
61-05858

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/207, 2 p.

Amendment No. 9 to the Taupo trout fishing regulations 1950, made under the fisheries act 1908.—16 December 1959

The amendment is consequential on the provisions of the Rotoaira trout fishing regulations 1959 authorizing fishing in the lake and stream to holders of Taupo trout-fishing licences who are also holders of entry permits under those regulations.

M
61-05859

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., Sect. 2, 1 : 9

Kongelig resolusjon om endr. § 1 i vedtektene for Statens garantifond for fiskere og fangstfold på prosentvilkår, fastsatt ved kgl. resolusjon 18. desember 1953 (Royal resolution amending art. 1 of the provisions of the State guarantee fund for fisherfolk, whalers, etc., on a percentage basis, as established by royal resolution of 18 December 1953.—16 January 1959)

The amended article specifies that in certain cases the administration of the fund may, subject to the consent of the Ministry, continue to make direct advances on guaranteed minimum batches.

REFERENCES

M
61-05860

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (7) : 226-7.

Kongelig resolusjon om bestemmelser for fisket med snurpenot i Vikna, Nord-Trøndelag (Resolution specifying regulations governing pursenet fishing in Vikna, Nord-Trøndelag.—30 January 1959)

Pursuant to art. 4 of the salt water fisheries act of 17 Jun. 1955, such fishing may be carried out only at certain times of the day, and in some places is prohibited altogether, during the period of fisheries control operations. Comes into force immediately.

M
61-05861

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (7) : 227

Kongelig resolusjon om forbud mot fiske med notredskaper etter skrei i Lofoten (Resolution prohibiting cod-fishing with nets in Lofoten.—30 January 1959)

Pursuant to art. 4 of the salt water fisheries act of 17 Jun. 1955 the above fishing is prohibited during 1959 and 1960 except for scientific and experimental fisheries operations. Comes into force immediately.

MF
61-05862

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (17) : 604

Kongelig resolusjon om forbud mot bruk av drivgarn og kastenot i Orkla elv. (Resolution prohibiting the use of drift-nets and casting nets in the Orkla River.—10 April 1959)

The use of the above gear is prohibited along the whole distance of the river where salmon are to be found. Comes into force on 15 Apr. 1959 until further notice but not beyond the end of 1963.

M
61-05863

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (19) : 630-1

Lov Nr. 5 om endr. i lov av 14. desember 1951 (nr. 3) om omsetning av råfisk (Act No. 5, amending the act (No. 3) of 14 December 1951, relative to the sale of raw fish.—29 April 1959)

Amends arts. 2, para. 2 and 2, para. 1 regarding the Crown's discretion to make the act applicable to "small whale" or parts thereof, and restrictions on sale of raw fish except through a recognized fishermen's sales organization.

M
61-05864

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (19) : 633-4

Kongelig resolusjon om lovbeskyttelse for småkvalfangernes salslag A/L (Resolution relative to the legal protection of the small-whale fishermen's sales association.—29 April 1959)

Pursuant to art. 2 of the act relative to raw fish sales of 14 Dec. 1951, trade in "small whale" may be conducted only through the above association unless such association otherwise permits. Comes into force from date appointed by the Ministry of Fisheries.

F

Norway. Laws, Statutes, etc. (1959)

61-05865

Norsk Lovtid., (20) : 646-7

Fiskeregler for Stor-Elvdal herred, Hedmark fylke (Fishing regulations relative to Stor-Elvdal district, province of Hedmark.—30 April 1959)

The regulations are issued pursuant to the act of 2 Jun. 1933 for the protection of freshwater fish, and prohibit all fishing, except angling, inside and outside Glomma, between 15 Sep. and 20 May and inside Glomma from 15 Sep. to 30 Oct. These regulations do not apply to perch. The types of fishing gear prohibited at all times in this area, subject to certain exceptions, are listed in the text. Comes into force on 10 May 1959.

F

Norway. Laws, Statutes, etc. (1959)

61-05866

Norsk Lovtid., (20) : 647

Fiskeregler for Tessevatn med osar og elvar, Smådøla undanteke, i Lom herad, Oppland fylke (Fishing regulations for Tessevatn including all rivers except Smådøla in the district of Lom, province of Oppland.—30 April 1959)

The regulations are issued pursuant to the act of 2 Jun. 1933 for the protection of freshwater fish and prohibit all fishing from 1 Sep. to 31 Oct. incl., and from the time such waters freeze until the spring thaw. Types of fishing gear prohibited, e.g. nets of smaller mesh than permissible, other than seines, rods and trawls, are listed in the text. Comes into force on 10 May 1959.

F

Norway. Laws, Statutes, etc. (1959)

61-05867

Norsk Lovtid., (20) : 648-9

Fiskeregler for Kvalsund herred, Finnmark fylke (Fishing regulations for Kvalsund district, Finnmark province. 30 April 1959)

The regulations are issued pursuant to the act of 2 Jun. 1933 for the protection of freshwater fish. As regards the area of the district outside Kvaløj all fishing is prohibited from 10 Sep. until 15 Oct. incl., except for mountain waters, and river and brook fishing from 1 Sep. until 31 Mar. excl. when rod fishing is allowed. Inside Kvaløj all fishing is prohibited from 10 Sep. until 10 Oct. incl. Types of fishing gear prohibited are listed in the text. Comes into force on 10 May 1959.

M

Norway. Laws, Statutes, etc. (1959)

61-05868

Norsk Lovtid., (21) : 666

Skriv om ikraftsetting av resolusjoner om enerett for Norges Råfisklag og Småkvalfangernes Salslag A/L til omsetning av småkval (Notice from the Ministry of Fisheries establishing the date of the coming into force of Royal Resolution of 29 April 1959 relative to the exclusive right of the Norwegian raw fish association and small whale fishers' association S/L to sell small whale.—16 May 1959)

Shall come into force on 1 Jun. 1959.

REFERENCES

Norway. Laws, Statutes, etc. (1959)

MF
61-05869

Norsk Lovtid., (24) : 742

Kongelig resolusjon om forbud mot fiske ved laksetrappene i Tømmeråsfossen i Grong (Resolution prohibiting fishing in the salmon-fishing preserves at Tømmeråsfossen cataract in Grong district, Nord-Trøndelag province.—5 June 1959)

Describes the precise location of the salmon-fishing preserves.

Norway. Laws, Statutes, etc. (1959)

M
61-05870

Norsk Lovtid., (26) : 845

Kongelig resolusjon om endr. i res. av 22 desember 1955 om bestemmelser om saltvannsfiskeriene (Resolution amending the resolution of 22 December 1955 relative to regulations governing salt-water fisheries.—19 June 1959)

Amends art. 11, para. 3 of the earlier act and specifies that nets of smaller mesh than that specified in items (1) and (2) (*loc. cit.*), may be used aboard vessels fishing for mackerel, herring, smelt crustaceans, eel, etc., but fish below minimum permitted size exceeding 10% of the total catch must be returned to the sea south of 61° N. latitude. Comes into force immediately.

Norway. Laws, Statutes, etc. (1959)

M
61-05871

Norsk Lovtid., (27) : 882

Kongelig resolusjon om endr. i lovbeskyttelsen for skagerafisk S/L, fjordfisk S/L og sild- og brislingsalslaget (Resolution relative to amendment of the act for the protection of skagerak-fish S/L, fjordfish S/L and the herring and brisling sales association.—27 June 1959)

The executive rights for the sale of raw fish by the above companies under an earlier resolution of 16 Dec. 1955 shall not apply to sales of herring, 16.5 cm or less, in size.

Norway. Laws, Statutes, etc. (1959)

M
61-05872

Norsk Lovtid., Sect. 2, 3 : 365-6

Kongelig res. med hjemmel i lov av 5. juni 1953 om avgift på klippfisk til fordel for fellesreklame og propaganda for klippfisknaeringen (Resolution amending, pursuant to the act of 5 June 1953 relative to tax on klip-fish for purposes of advertising and publicity for the klip-fish industry, art. of the instruction relative to the committee for the klip-fish industry advertising fund of 17 July 1953.—10 July 1959)

The amended article refers to allowances for unpaid members of the committee aforesaid.

MF

Norway. Laws, Statutes, etc. (1959)

61-05873

Norsk Lovtid., Sect. 2, 3 : 387

Regjeringens resolusjon om endr. av res. av 8. juni 1956 om salg til utlandet av medisintran m.v. (Government resolution amending, pursuant to the act governing the regulation and control of production, sale and export of fish and fisheries products, Sec. 4 of the resolution of 8 June 1956 on the same subject.—24 July 1959)

The amended Sect. 4 empowers the Ministry of Fisheries to issue further provisions regarding implementation of such regulation as referred to in Sect. 2 and 3 and regarding compulsory delivery and quota distribution of goods specified in Sect. 2.

M

Norway. Laws, Statutes, etc. (1959)

61-05874

Norsk Lovtid., Sect. 2, 4 : 428

Kongelig resolusjon : i medhold av § 4 i lov av 17. juni 1959 om saltvannsfiskeriene, etc. (Royal resolution issued pursuant to art. 4 of the salt water fisheries act of 17 June 1955.—16 October 1959)

The resolution prescribes that minimum dimension of sea crayfish, *Nephrops norvegicus*, as established by the resolution of 22 Dec. 1955, art. 3, item 17, shall be amended to 13 cm. Comes into force immediately.

M

Norway. Laws, Statutes, etc. (1960)

61-05875

Norsk Lovtid., Sect. 2, 1 : 9

Kongelig resolusjon : i medhold av § 4 i lov av 17. juni 1955 om saltvannsfiskeriene, etc. (Royal resolution prescribing, pursuant to art. 4 of the salt water fisheries act of 17 June 1955, that resolutions of 11 April 1958, 22 December 1955, 21 December 1956 and 17 January 1958, prohibiting the use (1) of shrimp trawl-nets at night in the provinces of Finnmark, Troms and Nordland; (2) of purse-nets in Kvanangenfjord, etc.; (3) in Brennvik at Leiranger, Nordland between 5 p.m. and 8 a.m.; and (4) at night in Valsfjorden, Röstkvervet, etc., respectively, shall be extended until 31 December 1963.—8 January 1960)

M

Norway. Laws, Statutes, etc. (1959)

61-05876

Norsk Lovtid., Sect. 2, 1 : 39

Kongelig resolusjon: i medhold av § 37 i lov av 25. juni 1937 om sildog brislingfiskeriene, endret ved lov av 17. april 1957 bestemm., etc. (Royal resolution specifying provisions pursuant to art. 37 of the herring and brisling fisheries act of 25 June 1937 as amended by the act of 17 April 1957.—22 January 1960)

Specifies provisions governing the use of trawl nets or other ocean fishing gear which when used in herring and brisling fisheries is drafted by one or more vessels and *inter alia* prohibiting any part of such gear from being drafted along the sea-bottom within Norwegian fishing waters.

REFERENCES

M
61-05877

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (7) : 170

Kongelig resolusjon om opphevelse av avgifter ved kontroll av fisk og fiskevarer (Resolution repealing taxes for inspection for fish and fisheries products.—19 February 1960)

Repeals provisions of earlier resolutions regarding taxes for quality control of medicinal codliver oil, fresh and frozen herring, klipfish, salt-fish, dried fish, etc. Comes into force on 15 Mar. 1960.

M
61-05878

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., Sect. 2, 1 : 123-4

Lov Nr. 5 om midlertidig tillegg til skattelovene for landet og for byene av 18. august 1911 (Act No. 5 relative to a temporary supplement to the tax acts for municipal and rural areas, of 18 August 1911.—26 February 1960)

Provides for certain tax deductions applicable to fisherfolk, etc., who have participated in fisheries in far northern waters, defined in the text. Comes into force immediately and applies to 1959, 1960 and 1961 tax assessments.

M
61-05879

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., Sect. 2, 1 : 124-5

Kongelig resolusjon om endr. i kronprinsregentens resolusjon av 16. desember 1955 vedrørende Norges makrellag S/L skal lyde (Royal resolution amending the resolution of 16 December 1955 relative to the Norwegian mackerel association S/L.—26 February 1960)

The amended version of the above earlier resolution prohibits the sale of mackerel or parts thereof, landed on the stretch of coast between the Swedish frontier and Stad, except through and with the approval of the above association. Repeals art. 2 of the earlier resolution aforesaid relative to certain other associations. Comes into force immediately.

M
61-05880

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (11) : 228

Skriv om setting av oppsynet under vårtorskefisket i Finnmark 1960 (Notice relative to the establishment of inspection control of spring cod fisheries in Finnmark in 1960.—14 March 1960)

Such control shall be established on 21 Mar. 1960.

M
61-05881

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (12) : 237-40

Lov Nr 1 om utlingning av tilleggsskatt til kommunene på større inntekter vedkommende inntektsåret 1959 og om plikt til å betale forskott på kommunal tilleggsskatt (Act No. 1 relative to the supplementary tax on higher incomes in the 1959 fiscal year, and to the obligation to pay local taxes in advance.—25 March 1960)

Specifies exemptions from the supplementary tax applicable, e.g. to building societies, as well as taxation facilities on behalf of fisheries associations, etc.

Norway. Laws, Statutes, etc. (1960)

MF

61-05882

Norsk Lovtid., (13) : 269

Kongelig resolusjon om forbud mot bruk av fiskereiskap naerare enn 200 m frå ymse reiskaper til fangst av laks og sjøaure i Ryfylke og Karmsund fiskeridistrikt (Royal resolution prohibiting the use of fishing tackle at a distance of less than 200 m from other fishing tackle for catching salmon and salmon-trout in the fisheries district of Ryfylke and Karmsund, province of Rogaland.—1 April 1960)

Does not apply to other fisheries—e.g. of herring, mackerel, etc. Comes into force on 15 Apr. 1960.

Norway. Laws, Statutes, etc. (1960)

M

61-05883

Norsk Lovtid., (14) : 271-2

Fiskeregler for Nore herred, Buskerud fylke (Fishing regulations in the district of Nore, province of Buskerud.—4 April 1960)

In the Tunhodfjord and Pålsuffjord all fishing is prohibited from 1 Oct. until 15 Dec. except for roe-fishing between 1 Oct. and 1 Nov., and only certain types of gear and tackle may be used. In other waters in the district, fishing is prohibited between 5 Oct. and 24 Oct. and fly-fishing between 1 Jul. and 20 Jul. Only certain types of gear and tackle may be used. Comes into force on 15 Apr. 1960 and repeals earlier regulations of the same kind.

Norway. Laws, Statutes, etc. (1960)

MF

61-05884

Norsk Lovtid., (14) : 275

Kongelig resolusjon om bemynd. for Fiskeridepartementet til å fastsette bestemmelser i medhold av lov om kvalitetskontroll med fisk og fiskevarer (Royal resolution authorizing the Ministry of Fisheries to establish regulations pursuant to the act on quality control of fish and fish products, of 28 May 1959.—8 April 1960)

Authorizes the Ministry to establish regulations pursuant to arts. 2, 3, 4 and 8 of the act and to amend or repeal those contained in art. 12, last para. of the act aforesaid, which act shall also apply to fresh caught fish. Comes into force immediately.

Norway. Laws, Statutes, etc. (1960)

MF

61-05885

Norsk Lovtid., (17) : 357-66

Forskrifter for behandling, tilvirking og transport av fisk som skal tilvirkes til saltfisk, klippfisk og tørrfisk (Regulations governing the handling, processing and transport of fish to be converted into salted fish, klipfish and stock fish.—30 April 1960)

The new regulations reproduce earlier regulations of 9 Mar. 1955, with certain amendments in respect of processing of unsplit fish, salted fish and klipfish.

REFERENCES

- MF
61-05886
- Norway. Laws, Statutes, etc. (1960)**
Norsk Lovtid., (17) : 368-70
 Bestem. om generelle krav til hermetikkfabrikker som søker opptakelse i Fiskeridirektørens register over norske hermetikkfabrikker (Regulations governing general requirements imposed on canning factories applying for inclusion in the Norwegian Canning Factories register of the Directorate of Fisheries.—6 May 1960)
- Specifies quality standards for mechanical equipment—cooling plant, rollers, etc.—factory premises, hygiene, staff qualifications, etc., for eligible candidates. Comes into force immediately.
- MF
61-05887
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5759) : 1
 Resolución suprema N° 121 sobre la tarifa para análisis de productos pesqueros (Supreme resolution No. 121: list of prices for analysis of fisheries products.—19 May 1960)
- Analysis carried out by the Fish and Game Division of the Ministry of Agriculture, under ministerial resolution No. 1502 of 21 Jun. 1956.
- MF
61-05888
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5765) : 2
 Decreto supremo estableciendo el reglamento del censo nacional para 1960 (Supreme decree establishing regulations for the 1960 national census.—1 July 1960)
- To incl. fisheries. Date to be announced subsequently.
- MF
61-05889
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5768) : 2
 Decreto supremo por el cual se encargará el Municipio de Lima de la distribución de los productos de pesca (Supreme decree declaring the Lima City Government responsible for the distribution of fisheries products.—8 July 1960)
- M
61-05890
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5778) : 1
 Decreto supremo N° 17 por el cual la Dirección General de Capitanías tendrá el control del terminal pesquero del Callao (Supreme decree No. 17 placing the Callao fishing terminal under control of the General Directorate of Ports.—20 July 1960)
- Lima fishing terminal to remain under Lima City Government control.
- MF
61-05891
- Philippines. Laws, Statutes, etc. (1960)**
Off. Gaz., Philippines, (37) : 5728-9
 Republic act No. 2633 authorizing the establishment of a brackish-water fish nursery station in the municipality of Leyte, Province of Leyte, and authorizing the appropriation of funds therefor.—18 June 1960
- Under the supervision of the Directorate of Fisheries.

MF

Philippines. Laws, Statutes, etc. (1960)

61-05892

Off. Gaz., Philippines, (37) : 5729

Republic act No. 2635, providing for the establishment of a school of fisheries in the Municipality of Dipolog, Province of Zamboanga del Norte, and authorizing the appropriation of funds therefor.—18 June 1960

Under the supervision and administration of the Director of the Bureau of Public Schools.

MF

Rhodesia-Nyasaland. Laws, Statutes, etc. (1960)

61-05893

Fed. Govt. Gaz., Rhodesia, Suppl. to (45) : 992-1006

Federal Government notice No. 285 of 1960 relative to the customs and excise (suspension) regulations, 1960, made under the customs and excise act, 1955 (no. 16)

Relating *inter alia* to fish, incl. fish pastes.

F

Spain. Laws, Statutes, etc. (1960)

61-05894

Bol. ofic. Estado, Spain, (168) : 9759

Orden por la que se crea una comisión técnico-administrativa para redactar un proyecto definitivo de eliminación o depuración de las aguas residuales que polucionan el río Urumea.—6 de julio de 1960 (Order creating a technical and administrative commission to draw up a final project for the elimination or purification of the waste waters polluting the Urumea River.—6 July 1960)

F

Spain. Laws, Statutes, etc. (1960)

61-05895

Bol. ofic. Estado, Spain, (194) : 11415-7

Orden por la que se dictan normas sobre aplicación de la vigente ley de pesca fluvial y reglamento de la misma, en relación con la alteración de las condiciones, biológicas, físicas o químicas de las masas de aguas continentales de sus cauces y riberas.—8 de agosto de 1960 (Order prescribing rules for the application of the river fishing act in force and of the regulations thereunder, as related to the alteration of the biological, physical or chemical conditions of bodies of inland water, riverbeds and rivers.—8 August 1960,)

Classifies waters in view of measures for prevention of pollution.

F

Spain. Laws, Statutes, etc. (1960)

61-05896

Bol. ofic. Estado, Spain, (201) : 11852

Orden por la que se amplía la representación del Ministerio de Agricultura en la comisión técnico-administrativa, encargada de redactar el proyecto definitivo de eliminación o depuración de las aguas residuales que polucionan el río Urumea.—12 de agosto de 1960 (Order increasing the representation of the Ministry of Agriculture on the technical and administrative commission charged with drawing up the final project for the elimination or purification of the waste waters polluting the Urumea River.—12 August 1960)

Ad 61-05894.

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Bol. ofic. Estado, Spain, (200) : 11805
 Orden por la que se aclara e interpreta el decreto de 12 de noviembre de 1959, que convalidó la exacción parafiscal "Bonificación a favor de la industria pesquera por consumo de carburantes".—13 de agosto de 1960 (Order classifying and explaining the decree of 12 November 1959, which revalidated the parafiscal assessment, "Surcharge for fishing industry fuel consumption".—13 August 1960)
 Surcharge to be incl. in the sale price to the State Fuel Monopoly, and not to be passed on to consumers.
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- Sweden. Laws, Statutes, etc. (1960)**
Svensk FörfSamml., (532-534) : 1405-6
 Kungl. maj:ts kungörelse Nr 532 om vissa undantag från förbudet mot trålfiske (Royal order No. 532 relative to certain exceptions from the prohibition on trawling.—17 August 1960)
 Specifies various areas in which trawling is allowed.
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- Tunisia. Laws, Statutes, etc. (1960)**
J. off. tunis., (46) : 1277-80
 Décret n° 60-340 du 30 septembre 1960 portant publication du protocole additionnel à la convention commerciale et tarifaire entre le Gouvernement de la République Tunisienne et le Gouvernement de la République Française (Decree No. 60-340 publishing the additional protocol to the trade and tariff agreement concluded on 5 September 1959 between the Governments of the Tunisian and the French Republics.—30 September 1960)
 Incl., *inter alia*, fish, live and dead, frozen, canned, cured, etc.; crustaceans.
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- Turkey. Laws, Statutes, etc. (1960)**
Resmî Gaz., Turkey, (10483) : 1170
 Circular No. 9, issuing rules governing fishing
 Prohibited spp., etc., for period 15 Apr. 1960-15 Apr. 1961.
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- Brock, E. M. (1960)**
Ecology, 41 (3) : 474-83
 Mutualism between the midge *Cricotopus* and the alga *Nostoc*
 Describes an association between *C. nostocicola* and *C. fuscatus* and *Nostoc parmeliodes* from Sagehen Creek, California.
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- Pearson, O. P. (1960)**
Ecology, 41 (3) : 494-508
 A mechanical model for the study of population dynamics
 Ill. description of what is virtually an analog computer, working on principle of "pinball machine" and similar to that familiar to fisheries scientists as the "Lowestoft" model, but having facilities for studying density dependent mortality rates. Discusses algebraic representation of the mechanical model, its use for instruction, and some trial results obtained on population growth and equilibrium.

F

Packer, W. C. (1960)
Ecology, 41 (3) : 509-17

61-05903

Bioclimatic influences on the breeding migration of *Taricha rivularis*

Examines the influence of rainfall, temperature, relative humidity and barometric pressure on this newt in California.

MF

Davis, J. H. (1960)
Ecology, 41 (3) : 537-41

61-05904

Proposals concerning the concept of habitat and a classification of types

A brief review of the term habitat and the confusion of habitat with environment and other terms and concepts is followed by a discussion of the broad concept of habitat. A classification of habitats is proposed and an outline is presented.

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Wigley, R. L. (1960)
Ecology, 41 (3) : 564-70

61-05905

Note on the distribution of Pandalidae (Crustacea, Decapoda) in New England waters

Based on collections made in 1956, summarizes the situation with special reference to *Dichelopandalus leptocerus*, *Pandalus borealis*, *P. montagui*, and *P. propinquus*. Geographic and bathymetric distribution and temperature and bottom sediment relationships are discussed.

F

Williams, R. W. (1960)
Ecology, 41 (3) : 573-4

61-05906

A new and simple method for the isolation of fresh-water invertebrates from soil samples

Redescribes the use of a technique for collection of invertebrates from other than sandy soil.

M

Wells, H. W., M. J. Wells & I. E. Gray (1960)
Ecology, 41 (3) : 578-80

61-05907

On the southern limit of *Balanus balanoides* in the western Atlantic

Describes its locality records on western Atlantic coast incl. new record of southern limit—35° 30' N—and discusses factors responsible for southern limitation.

M

Burnett, A. L. (1960)
Ecology, 41 (3) : 583-4

61-05908

The mechanism employed by the starfish, *Asterias forbesi*, to gain access to the interior of the bivalve, *Venus mercenaria*

Contributes further evidence to show that the valves can be opened through the force alone and without the secretion of a toxic substance.

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Ci 59-6793. Attempts to make some correlation of the diversity of the spp. with the standing crop and zooplankton and thus with the gross picture of basic productivity near Bermuda.
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- Hoese, H. D.** (1960)
Ecology, 41 (3) : 592-3
Juvenile penaeid shrimp in the shallow Gulf of Mexico
Based on collections in east Texas, discusses occurrence of *Penaeus* in relation to salinity, protection from predation, etc.
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- Noble, E. R.** (1960)
Ecology, 41 (3) : 593-6
Fishes and their parasite-mix as objects for ecological studies
A general essay on the subject.
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- Lytle, C. F.** (1960)
Ecology, 41 (3) : 603-4
Behaviour of the invertebrates
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- Curl, H., Jr.** (1960)
Ecology, 41 (3) : 605
The ocean river refuted
Re 59-6458.
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- Bates, M.** (1960)*
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Ecosystems of the world
Re 61-05914.

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Deep-Sea Res., 6 (3) : 173-83
 Micro-organisms as indicators of hydrological phenomena in seas and oceans—2. Investigation of the deep circulation of the Indian Ocean using microbiological methods
- Co 61-02395. Description of the horizontal and vertical distribution of heterotrophs and individual bacterial spp. in the Indian Ocean.
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- Hayter, P. J. D.** (1960)
Deep-Sea Res., 6 (3) : 184-6
 The Ganges and Indus submarine canyons
- Details are shown of the topography of the sea floor near the heads of the Ganges and Indus submarine canyons.
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- Jousé, A. P.** (1960)
Deep-Sea Res., 6 (3) : 187-92
 Les diatomées des dépôts de fond de la partie nord-ouest de l'Océan Pacifique (Diatoms of the bottom deposits of the NW part of the Pacific Ocean)
- Stratigraphy and depth distribution of different spp. in the sediment cores.
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Deep-Sea Res., 6 (3) : 193-205
 A median valley of the Mid-Atlantic Ridge
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 Observations of squid at the surface in the NE Atlantic
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 Quelques traits remarquables du relief sous-marin en Mer Méditerranée et en Mer Noire (Some remarkable traces of the submarine relief in the Mediterranean and in the Black Sea)
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61-05930**Hamabe, M. & T. Shimizu (1959)***Rep. Japan Sea reg. Fish. Res. Lab.*, (5) : 19-27(Littoral aggregation of the squid at the Oki Islands—2.). *Ni En*Reports aggregation of *Ommastrephes* in Saigo Bay, on basis of 1954-59 data.M
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Amer. Scient., 48 (3) : 300–10
Black axolotl, and white

Short description of the life history of tadpoles with precocious sexual maturity from Mexico, and genetic experiments carried out with this sp.
- Duncan, C. J.** (1960) MF
61-05979
Proc. zool. Soc. Lond., 134 (4) : 601–9
The evolution of the pulmonate genital system
- Burdon-Jones, C. & A. M. Patil** (1960) M
61-05980
Proc. zool. Soc. Lond., 134 (4) : 635–45
A revision of the genus *Saccoglossus* (Enteropneusta) in British waters

Comparative study of topotypes of *S. ruber* (Tattersall), *S. serpentinus* (Assheton) and *S. cambrensis* Brambell and Cole shows they are conspecific, and ought all to be designated *S. ruber* (Tattersall).
- Fox, H.** (1960) F
61-05981
Proc. zool. Soc. Lond., 134 (4) : 659–63
Early pronephric growth in *Neoceratodus* larvae

Measurements of *N. forsteri*; comparison with *Lepidosiren* and *Protopterus*.
- USFWS. Bureau of Sport Fisheries & Wildlife. Branch of Fishery Research (Comp.)** (1960) MF
61-05982
Circ. U.S. Fish. Wildl. Serv., (81) : 80 p.
Progress in sport fishery research, 1959

Brief accounts of work being done together with some results from 12 research stations, with list of year's publications and staff.

M

U.S.S.R. Akademiia Nauk. Komitet po Geodesii i Geofizike (1960) 61-05983
Moskva, 103 p.

Soobshchenie o nauchnykh rabotakh po fizicheskoi okeanografii 1957-1959 gg. (News on scientific works on physical oceanography in the years 1957 to 1959)

Review of the works and projects carried out with annotated bibliography of publications in the subjects.

MF

Australia. CSIRO (1959)
Rep. sci. Res. Org., Canberra, (11) : 181 p.

61-05984

Chapter 12 contains an account of the work of the Organization's Division of Fisheries and Oceanography in fisheries, biology, taxonomy, hydrography, planktology, microbiology, productivity and marine fouling and other fields, with account of the operations of its research vessels.

MF

France. Conseil Supérieur de la Pêche (1960)
Bull. Inf. Cons. sup. Pêche, (39-40) : 110 p.

61-05985

Regular quarterly bulletin reporting the activities of the Council. Incl. technical notes; official communications concerning such matters as pollution, policing, and control of fishing; jurisprudence; service conditions; miscellaneous.

MF

Rioja, E. (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 151-7

61-05986

Estudios hidrobiológicos—12. Hallazgo de la *Cordylophora caspia* (Pallas) (Hidroideo gimnoblástico en la laguna de Mandinga Veracruz) (Hydrobiological studies—12. Findings of *Cordylophora caspia* (Pallas)—Gymnoblástid hydroid in the Lagoon of Mandinga Veracruz)

Describes abundant colonies observed in 1959 of *Brachyodontes*.

M

Caballero, E. y C. (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 159-66

61-05987

Trematodos de las tortugas de México—7. Descripción de un trematodo digéneo que parasita a tortugas marinas comestibles del Puerto de Acapulco, Guerrero (Trematodes of the turtles of Mexico—7. Description of a digenetic trematode parasitizing edible marine turtles of Puerto de Acapulco, Guerrero). En

Describes *Cymatocarpus undulatus* (*Distomum soleare*) from small intestine of *Chelone mydas*.

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61-05988
An. Inst. Biol. Univ. Méx., 30 (1-2) : 167-81

Trematodos de peces de aguas mexicanas del Pacifico—17. Dos nuevos generos de Monogenoidea Bychowsky, 1937) (Trematodes of fishes from Mexican waters of the Pacific—17. Two new genera of Monogenoidea Bychowsky 1937). En

Describes *MEXICANA bychowsky* (Tetraonchidae) from Sciaenidae, and *PARACALCEOSTOMA calceostomoides* (Calceostomatidae) from *Haemulon scudderii*.

- Winter, H. A.** (1959) M
61-05989
An. Inst. Biol. Univ. Méx., 30 (1-2) : 183-208

Algunos trematodos digeneos de peces marinos de aguas del Oceano Pacifico del Sur de California, U.S.A. y del litoral mexicano (Some digenetic trematodes from marine fishes of the Pacific Ocean from southern California, USA and the Mexican coast). En

Redescriptions, new host and locality records for 10 spp. in 8 families. Hosts were spp. of *Scorpaena*, *Epinephelus*, *Genyonemus*, *Girella*, *Cirrhitus*, *Galeorhinus*, *Balistes* and *Cymatogaster*.

- Caballero, E. y C.** (1959) F
61-05990
An. Inst. Biol. Univ. Méx., 30 (1-2) : 227-42

Hirudineos de Mexico—22. Taxa y nomenclatura de la clase Hirudinea hasta generos (Leeches of Mexico—22. Taxa and nomenclature of the class Hirudinea to genera). En

NE 1956 Caballero, E. y C. New genera added; other names revised; extended bibliography. Lists all genera of the class in systematic order—not confined to Mexico.

- Rioja, E.** (1959) M
61-05991
An. Inst. Biol. Univ. Méx., 30 (1-2) : 243-59

Estudios anelidologicos—23. Contribucion al conocimiento de los anelidos poliquetos de las Islas de Revillagigedo (Annelidological studies—23. Contribution to knowledge of the polychaete annelids of the Islands of Revilla Gigedo)

- Villalobos, A. F.** (1959) M
61-05992
An. Inst. Biol. Univ. Méx., 30 (1-2) : 269-330

Contribucion al conocimiento de los Atyidae de Mexico—2. (Crustacea, Decapoda). Estudio de algunas especies del genero *Potimirim* (= *Ortmannia*), con descripcion de una especie nueva en Brasil (Contribution to knowledge of the Atyidae of Mexico—2. (Crustacea, Decapoda). Study of some species of the genus *Potimirim* (= *Ortmannia*), with description of a new sp. from Brazil)

Species.

Villalobos, A. F. (1959)M
61-05993*An. Inst. Biol. Univ. Méx.*, 30 (1-2) : 331-47

Un nuevo genero de Atyidae (Crustacea, Decapoda), procedente de la Isla de Cocos (A new genus of Atyidae (Crustacea, Decapoda), from the Cocos Island)

Ill. description of new sp. *Archaeatya chacei*.

Japanese Government Survey Mission (1960)MF
61-05994

Tokyo, 89 p.

Fishing industry in Turkey

Report of survey 21/10-21/11/1959. Reviews geography and resources; summarizes present fisheries-spp., grounds, production trends; prices, trade, processing; appraisal of present fisheries research; proposals for development of industry.

Ichiye, T. (1960)M
61-05995*Tellus*, 12 (2) : 149-58

On critical regimes and horizontal concentration of momentum in ocean currents with two-layered system

The principles of minimum momentum transport and minimum energy are applied to the current in a two-layered ocean. For a flow of a finite width over the motionless lower layer these principles with the constancy of total volume transport predict the critical values of current width and upper layer thickness.

Faller, A. J. (1960)M
61-05996*Tellus*, 12 (2) : 159-71

Further examples of stationary planetary flow patterns in bounded basins

Laboratory experiments and the analysis to incl. the effects of bottom friction show that the characteristic spreading of zonal currents is due to bottom friction combined with the radial depth variation. Equations are developed and examples of "recirculation" and the spread of zonal flow are worked out for a barotropic ocean of uniform depth.

Stern, M. E. (1960)M
61-05997*Tellus*, 12 (2) : 172-5

The "salt-fountain" and thermohaline convection

Discussion of the "gravitationally stable" salinity and temperature stratification in the sea and mathematical study of the convective motion.

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61-05998

McDonald, J. E. (1960)
Tellus, 12 (2) : 176-83
 Remarks on correlation methods in geophysics

From consideration of several studies of the sampling properties of the product-moment correlation coefficient r it is concluded that use of geophysically adequate significance tests and confidence limits for r can almost always be achieved through use of the simple standard error of r .

M
61-05999

Lodge, J. P., Jr., A. J. MacDonald, Jr. & E. Vihman (1960)
Tellus, 12 (2) : 184-7
 A study of the composition of marine atmospheres

Data on trace substances in air, obtained in mid-Pacific during two summers, are summarized.

M
61-06000

Kanwisher, J. (1960)
Tellus, 12 (2) : 209-15
 $p\text{CO}_2$ in sea water and its effect on the movement of CO_2 in nature

A method is described for measuring $p\text{CO}_2$. It has been used to determine the changes in $p\text{CO}_2$ produced by variations of temperature and total CO_2 . It appears that most of the fossil fuel CO_2 released by man has been effective in increasing the percentage of this gas in air.

F
61-06001

J. B. M. (1960)
Conserv. Bull. Minn., 23 (135) : 10
 Record tullibee?

Records the taking of a $6\frac{1}{2}$ lb, 27 inch long specimen from Big Saganaga Lake, Minnesota, on 26 Oct. 1959.

M
61-06002

Bjerknes, J. (1960)
WMO Bull., 9 (3) : 151-7
 Ocean temperatures and atmospheric circulation

Interactions between the surface water and air circulations and history of water temperature changes over the North Atlantic and their dependence on corresponding changes in atmospheric circulation.

F
61-06003

Krefft, G. (1959)
Arb. Inst. Seefisch., (4) : 309-11

Richtlinien zur Erstbeschreibung von Fischarten, aufgestellt im Verlauf der zweiten Arbeitstagung deutscher Ichthyologen (Guiding principles for prime description of fish species established in the course of the second meeting of German ichthyologists)

G

Davis, D. E. (1960)

61-06004

J. Wildlife Mgmt., 24 (3) : 344-8

A chart for estimation of life expectancy

Present chart from which life expectancy can be determined when probability of survival known. Compares several procedures for calculating life expectancy.

F

Dees, L. T. (1960)

61-06005

Fish. Leaflet, Wash., (491) : 8 p.

Sea lamprey

Brief popular summary of life history, effect on fishery, and coastal measures.

MF

Ross, A. J. & R. R. Rucker (1960)

61-06006

Fish. Leaflet, Wash., (497) : 3 p.

A "virus" disease of chinook salmon

Gives identification, cause, source and reservoir of infection, mode of transmission, incubation period, period of communicability, susceptibility and resistance, range, occurrence, and method of control of virus disease of chinook salmon, *Oncorhynchus tshawytscha*.

F

Ruf, M. (1960)

61-06007

Allg. FischZtg., 85 (13) : 303-7

Die Verunreinigung der Gewässer durch radioaktive Substanzen—Sind unsere Fische radioaktiv "verseucht"? (The pollution of waters by radioactive substances—Are our fishes contaminated with radioactivity?)

Reviews the possibilities of contaminating waters with radioactive waste products and their influence on aquatic life.

MF

Price, T. J. (1958)*

61-06008

Paper presented at the Annual 1958 Convention of the National Shellfisheries Association

Accumulation of radioactive cesium by shellfish

MF

Nelson, T. C. (1958)*

61-06009

Paper presented at the Annual 1958 Convention of the National Shellfisheries Association

The oyster larvae; some highlights of one-half century in retrospect

MF

Mackin, J. G. (1958)*

61-06010

Paper presented at the 1958 Annual Convention of the National Shellfisheries Association

Longevity of oysters in Louisiana

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61-06011
- McDermott, J. J. (1958)***
 Paper presented at the 1958 Annual Convention of the National Shellfisheries Association
 Productivity of Delaware Bay natural seed bed
- MF
61-06012
- Butler, P. A. (1958)***
 Paper presented at the 1958 Annual Convention of the National Shellfisheries Association
 Growth of New England hard clams in Florida
- F
61-06013
- Conference on Great Lakes Research, 3rd, Present Status and Future Needs, Ann Arbor, Michigan, May 6-7, 1959 (1960)**
 Ann Arbor, 160 p.
 Proceedings
- Proceedings of the meeting convened to assess the present status of all kinds of research on the Great Lakes and to focus attention on areas of study that have been neglected thus far but offer exciting and rewarding opportunities for the immediate future. Gives status and activity reports, research projects and brief account of panel discussions on the survey of present and recommendations for future. Contains 61-06014 to 61-06020. Referred also as: *Publ. Gr. Lakes Res.*, (4).
- F
61-06014
- Bruce, J. P. (1960)**
Proc. Conf. Gr. Lakes Res., (3) : 3-8
 Great Lakes research
- Status report on Canadian Meteorological Branch activity. Incl. summary of preliminary study on the relation of gradient winds over Lake Ontario to drift bottle paths and water currents.
- F
61-06015
- Petterssen, S. (1960)**
Proc. Conf. Gr. Lakes Res., (3) : 9-20
 Some weather influences due to warming of the air by the Great Lakes in winter
- Account of preliminary survey of effects of Great Lakes on pressure configurations and patterns of precipitation during cold spell.
- F
61-06016
- Platzman, G. (1960)**
Proc. Conf. Gr. Lakes Res., (3) : 21-5
 A numerical computation of the surge of 26 June 1954 on Lake Michigan
- CR 60-6021. Deals with the problem of predicting fluctuations of water level produced by movement of squall line across the surface of a lake. Uses a numerical method to obtain the particular solution for the surge of 26 Jun. 1954.

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- Gillies, D. K. A.** (1960) F
61-06017
Proc. Conf. Gr. Lakes Res., (3) : 35-42
 Winds and water levels on Lake Erie

Demonstrates possibility of producing an operationally useful forecast of lake levels with reasonably accurate forecasts from weather office.

- Johnson, R. L.** (1960) F
61-06018
Proc. Conf. Gr. Lakes Res., (3) : 43-9
 Limnology and the sanitary engineer

Account of limnological factors which affect pollution of public bathing places and water supplies along the Great Lakes.

- Portman, D. J.** (1960) F
61-06019
Proc. Conf. Gr. Lakes Res., (3) : 77-84
 An improved technique for measuring wind and temperature profiles over water and some results obtained for light winds

Ill. description of equipment and technique. Gives results obtained in first trial.

- Brunk, I. W.** (1960) F
61-06020
Proc. Conf. Gr. Lakes Res., (3) : 145-50
 Precipitation and the levels of lakes Michigan and Huron

CR 60-1997. Uses precipitation data for land area of Michigan-Huron drainage basin to demonstrate relationships with lake levels.

- Chipman, W. A.** (1959) MF
61-06021
Proc. nat. Shellfish. Ass., 49 (1958) : 5-12
 Disposal of radioactive materials and its relation to fisheries

Gives description of nature and origin of radioactive wastes arising in industries, discusses problems in disposal and control of discharge.

- Medcof, J. C.** (1959) MF
61-06022
Proc. nat. Shellfish. Ass., 49 (1958) : 13-28
 Studies on stored oysters (*Crassostrea virginica*)

Observation on survival, fatness and flavour in oysters left on beds and in oysters held in air storage.

- Andrews, J. D., D. Haven & D. B. Quayle** (1959) MF
61-06023
Proc. nat. Shellfish. Ass., 49 (1958) : 29-49
 Fresh-water kill of oysters (*Crassostrea virginica*) in James River, Virginia, 1958

Account of observations on the salinity and temperature effect and estimations of mortality.

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61-06024
- Quayle, D. B. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 50-3
 Prediction of oyster setting in British Columbia (*Crassostrea gigas*)
- Describes empirical method of determining time and approximate intensity of setting.
- MF
61-06025
- Quayle, D. B. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 54-8
 Pacific oyster seed production (*Crassostrea gigas*)
- Describes procurement of oysters needed to sustain the industry in NW Pacific and compares two main sources together with the type of seed and cultch from each.
- MF
61-06026
- Amant, L. S. St. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 71-6
 Successful use of reef oyster shells (mud shells) as oyster cultch in Louisiana
- Account of investigations to determine the suitability of these shells. Compares results obtained from reef and steam shells.
- MF
61-06027
- Haven, D. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 77-86
 Effects of pea crabs *Pinnotheres ostreum* on oysters *Crassostrea virginica*
- Compares oysters with and without crabs for growth and fatness. Measurements incl. volume, wet and dry meat weight, and shell cavity volume.
- MF
61-06028
- Chapman, C. R. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 87-97
 Oyster drill (*Thais haemastoma*) predation in Mississippi Sound
- Account of investigations to determine the effect of oyster drill on spatfall, spat and larger oysters.
- MF
61-06029
- Orcutt, H. G. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 98-100
 California oyster ground utilization plan
- Notes on culture laws and policies.
- F
61-06030
- Keiz, G. (1960)**
Allg. FischZtg., 85 (10) : 227
 Die Wasserfrösche als Schädlinge in der Forellenzucht (Water frogs a pest for trout culture)
- Reviews literature; ill. experiments with frogs in ponds stocked with rainbow trout, and describe stomach contents.

M

France. Institut Océanographique (1958)

61-06031

Ann. Inst. océanogr., Paris, 34 : 336 p.

Résultats scientifiques des campagnes de la 'Calypso' (Scientific results of the expeditions of the 'Calypso')

Reports on several expeditions in different waters containing studies on sponges, fishes, molluscs, echinoderms, sediments, benthos, etc.

M

Le Danois, Y. (1959)

61-06032

Ann. Inst. océanogr., Paris, 36 (1) : 274 p.

Étude ostéologique myologique et systématique des poissons du sous-ordre des Orbiculates (Osteologic, myologic and systematic study of fishes of the sub-order Orbiculates)

Cranio-osteological, myological and systematic study and notes on the lateromucous system.

M

France. Institut Océanographique (1959)

61-06033

Ann. Inst. océanogr., Paris, 37 (4) : 342 p.

Résultats scientifiques des campagnes de la 'Calypso' (Scientific results of the expeditions of the 'Calypso')

Results of expeditions on Gulf of Guinea, and Principe, San Tomé and Annobon Islands, coast of Provence, Gulf of Genoa, Alboran Sea and Ibero-Moroccan Bays.

F

Červenka, R. et al. (1959)

61-06034

Sborn. vys. Šk. chem.-tech., Praha, 3 (1) : 247-90

Limnologická studie o nádrži Sedlice u Želiva—7. Příspěvek k metodice výběru nových algicidních sloučenin (Limnological study of the reservoir Sedlice near Zeliv—7. A contribution to the technique of selecting new algicide compounds). En Ru

Describes studies of methods of preventing excessive increase of phytoplankton using compounds of copper, silver and sodium pentachlorophenolate.

F

Leffler, R. (1960)

61-06035

Sea Frontiers, 6 (1) : 10-7

Oceanic conservation fleet

Incl. details of USFWS research vessels, and planes, and notes on their equipment and activities.

M

Gilmore, R. M. (1960)

61-06036

Sea Frontiers, 6 (1) : 18-23

Whale in the grass

Popular description of the migrations of whales in Northeastern Pacific.

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Sea Frontiers, 6 (1) : 24-32
 Fisheries research in Hong Kong
- Description of the fisheries research programme and principal results obtained in the past.
- M
- Randall, J. E.** (1960) 61-06038
Sea Frontiers, 6 (1) : 33-44
 New fishes for Hawaii
- Notes on attempts to transplant different fish spp. into Hawaiian waters and notes on the immigrant spp. occasionally found there.
- M
- Gordon, B. L.** (1960) 61-06039
Sea Frontiers, 6 (1) : 51-7
 Fish are bothered by them, too
- Popular descriptions of some fish parasites.
- M
- Meyers, S. P. & E. S. Reynolds** (1960) 61-06040
Canad. J. Bot., 38 : 217-26
 Occurrence of lignicolous fungi in northern Atlantic and Pacific marine localities
- Account of systematic examination of fungal biota on submerged wood panels. Active ascomycetous and deuteromycetous mycota dominates others. Issued also as: *Contr. Mar. Lab. Univ. Miami*, (252).
- M
- Wiborg, K. F.** (1960) 61-06041
Fiskeridir. Skr. Havundersøk, 12 (7) : 27 p.
 Investigations on eggs and larvae of commercial fishes in Norwegian coastal and offshore waters in 1957-58
- Occurrence and distribution of eggs and larvae of *Gadus morhua*, *Melanogrammus aeglefinus*, *Pollachius virens*, *Clupea harengus*, *Sebastes marinus*, *Brosme brosme*, *Mallotus villosus*.
- F
- Kozhova, O. M.** (1959) 61-06042
Izv. sib. Otd. Akad. Nauk SSSR, (10) : 112-24
 Sistematiceskii spisok planktonovykh vodoroslei ozera Baikal i nekotorye dannye po biologii ikh massovykh form (Systematic list of the plankton algae of Lake Baikal and some data on the biology of their conglomerations)

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61-06043
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Dansk FiskTid., 78 (22) : 286-7
 Foredsigelse for makrelfiskeri (Prediction for the mackerel fishery)

Short description on the basis of the predictions of mackerel fishery in Skagerrak and Kattegat, with notes of mackerel behaviour in different hydrographic conditions.

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Bull. Scripps Instn Oceanogr., 7 (5) : 363-412
 Radiance distribution as a function of depth in an underwater environment

Description of experimental location and determination of the influence of sky and water surface conditions on the data. Radiance distribution under clear and overcast sky is given in tables.

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61-06045
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Notas Cent. Biol. pisc., Lisboa, (8) : 5 p.
 Panorama das pescas em Moçambique (Panorama of fisheries in Mozambique)

Describes fishing methods for fishes, molluscs, coelenterates, echinoderms. Production trends; conclusions and perspectives.

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61-06046
- Monteiro, R. (1960)**
Notas Cent. Biol. pisc., Lisboa, (10) : 9 p.
 Alguns elementos para o estudo da captura diferencial de artes de pesca em Angola (Some data for the study of the selective catch of fishing gear)

Results of studies of relative growth and experiments of mesh selectivity in *Trachurus trachurus* and *Sardinella aurita*.

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Spec. sci. Rep. U.S. Fish Wildl. Serv., (274) : 5 p.
 Observations of molting female king crabs (*Paralithodes camtschatica*)

Describes observations of nine crabs caught in Pavlof Bay on the Alaska Peninsula between May 1 and May 18, 1957. Issued also as: *INPFC Doc.*, (271).

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- Minnesota. Department of Conservation. Division of Game & Fish. Section of Research & Planning (1959)**
 83 p.
 Manual of instruction for Game Lake surveys

Designed for use in making surveys of marshes and shallow lakes in Minnesota to provide physical, chemical and biological data on water fowl and muskrats. Incl. field sheets, lists of and keys to Minnesota aquatic plants, description of wetland types, material for identification of young ducks, material in control of aquatic nuisances, habitat management, etc.

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Annual report 1959
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Fisken og Havet, (2) : 12 p.
Rapport fra tokt med 'G. O. Sars' til øst - og VestGrønland i Juni-September 1959 (Report from the expedition with 'G. O. Sars' to east and west Greenland during June-September 1959)
- Expedition's route with principal results of oceanographic and fisheries investigations.
- F
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Ann Arbor, 67 p.
Annual report for the year 1958
- History of the Commission; account of its interim meetings in 1958; proceedings of 3rd annual meeting, Dec. 1958; administrative report for 1958; account of lamprey control and research; reports of fishery research on the Great Lakes in 1958.
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Biol. Bull., Woods Hole, 117 (3) : 439-42
On the food of nudibranchs
- Aquarium observations of bed sea spp. indicates selective diet, ranging from exclusively algal to exclusively animal; depend on plankton in absence of other food; mortality caused by lack of suitable foods but does not follow spawning. Mass migration to better feeding areas occurs after spawning.
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- Black, R. E. & A. Tyler** (1959)
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Effects of fertilization and development on the oxidation of carbon monoxide by eggs of *Strongylocentrotus* and *Urechis* as determined by use of C¹³
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Cytochrome oxidase and oxidation of CO in eggs of the sea urchin *Strongylocentrotus purpuratus*

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Spec. sci. Rep. U.S. Fish Wildl. Serv., (341) : 15 p.
 Microhematocrit as a tool in fishery research and management
- Describes in detail procedure of micro-method of hematocrit as applied to *Salmo trutta* and *Salmo gairdnerii*.
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61-06056
Biol. Bull., Woods Hole, 117 (3) : 504-10
 On the presence of myoglobin and cytochrome oxidase in the cartilaginous odontophore of the marine snail, *Busycon*
- Rebhun, L. I.** (1959) M
61-06057
Biol. Bull., Woods Hole, 117 (3) : 518-45
 Studies of early cleavage in the surf clam, *Spisula solidissima*, using methylene blue and toluidine blue as vital stains
- Stunkard, H. W.** (1959) MF
61-06058
Biol. Bull., Woods Hole, 117 (3) : 562-81
 The morphology and life-history of the digenetic trematode, *Asymphyiodora amnicolae* n. sp.; the possible significance of progenesis for the phylogeny of the Digenea
- Reviews genus and its world distribution in Cyprinidae and other fishes; experiments with this sp., adults from guts of *Perca flavescens*, *Fundulus*, *Micropterus dolomieu* and *Lepomis macrochirus*, juveniles and mature worms from pectinibranchiate snail, *Amnicola limosa* in ponds in New England.
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 Studies on the physiological variation between tropical and temperate zone fiddler crabs of the genus *Uca*—3. The influence of temperature acclimation on oxygen consumption of whole organisms
- Co 60-0338. Experiments with *U. pugnax* from N. Carolina and *U. rapax* from Florida and Jamaica.
- Wieser, W. & J. Kanwisher** (1959) M
61-06060
Biol. Bull., Woods Hole, 117 (3) : 594-600
 Respiration and anaerobic survival in some sea weed-inhabiting invertebrates
- Ci 59-2715. Studies at Woods Hole of water samples from under *Fucus* and *Ascophyllum* clumps; observations especially of nematodes, mites,—Halacaridae—and amphipods.

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- M
61-06061
- Gabler, H.** (1959)
Dtsch. hydrogr. Z., 12 (6) : 229-43
 Über die Grenzen der Genauigkeit bei Echolotungen in ozeanischen Seeräumen (On the limits of accuracy of echo soundings in ocean regions).
 En Fr

With a view to determine the limits of accuracy of echo soundings in ocean regions, the effect of regionally generalized mean values of sound velocity and of the directional diagrams of acoustic radiators and receivers as well as the influence exercised by measuring the echo running time and the recording accuracy of sound impulses are investigated.

- M
61-06062
- Pierson, W. J., Jr.** (1959)
Dtsch. hydrogr. Z., 12 (6) : 244-59
 A study of wave forecasting methods and of the height of a fully developed sea on the basis of some wave records obtained by the O.W.S. 'Weather Explorer' during a storm at sea. Fr De

The growth of the waves in a storm in which the significant waves grew from 6 feet to 42 feet as recorded by the O.W.S. 'Weather Explorer' is studied. Spectra computed from the records are compared with the results of J. Darbyshire, C. Breischneider and G. Neumann.

- M
61-06063
- Walden, H.** (1959)
Dtsch. hydrogr. Z., 12 (6) : 259-62
 Bemerkungen zu einer von Djounkovski und Bojitch angegebenen Beziehung zur Berechnung des Seegangs aus den Windverhältnissen (Notes on a relation discussed by N. N. Djounkovski and P. K. Bojitch for computing sea waves from wind conditions). En Fr

An equation stated by Djounkovski and Bojitch, 1959, for computing the heights of sea waves is compared with the corresponding data of the "hindcasting" procedure applied by other authors.

- M
61-06064
- Saint-Guily, B.** (1959)
Dtsch. hydrogr. Z., 12 (6) : 262-70
 Sur la solution du problème d'Ekman (On the solution of the Ekman problem). En De

It is shown that Ekman's problem can be solved by an analysis for oceans that are limited by a simple geometric curve and by analogous computation—rheoelectric basin of variable depth—or by finite differential calculus—resistance grid or electronic computer—for real oceans.

- M
61-06065
- Templeman, W. & H. J. Squires** (1960)
J. Fish. Res. Bd Can., 17 (1) : 9-31
 Incidence and distribution of infestation by *Sphyrion lumpi* (Krøyer) on the redfish, *Sebastes marinus* (L.), of the western North Atlantic
- Describes parasite and its seasonal rhythm and abundance, distribution on *Sebastes marinus*, infestation and depth relation, life-history and localization of infestation. Incl. notes on migration of the host indicated by the old-head abundance of parasite.
- M
61-06066
- Murphy, G. I.** (1960)
J. Fish. Res. Bd Can., 17 (1) : 33-40
 Estimating abundance from longline catches
- Discusses to compute linear estimates of abundance by combining factors that enter into catch of fish by baited longline into equations that permit using information afforded by the catches.
- M
61-06067
- Kohler, A. C.** (1960)
J. Fish. Res. Bd Can., 17 (1) : 41-60
 The growth, length-weight relationship, and maturity of haddock *Melanogrammus aeglefinus* L.) from the region of Lockeport, N.S.
- Incl. discussion on change in growth pattern.
- M
61-06068
- Tully, J. P., A. J. Dodimead & S. Tabata** (1960)
J. Fish. Res. Bd Can., 17 (1) : 61-80
 An anomalous increase of temperature in the ocean off the Pacific coast of Canada through 1957 and 1958
- Discusses occurrence and development of anomalous oceanographic conditions, and their influence on spawning migration of *Oncorhynchus nerka*.
- F
61-06069
- Crampton, E. W.** (1960)
J. Fish. Res. Bd Can., 17 (1) : 81-90
 Effect of the ingestion of *Triaenophorus* plerocercoids on the nutritional characteristics of whitefish fillets in the rations of puppies
- Account of studies on the ingestion of fillets contaminated with *T. crassus*. States that have no detrimental effect.
- M
61-06070
- Tully, J. P. & F. G. Barber** (1960)
J. Fish. Res. Bd Can., 17 (1) : 91-112
 An estuarine analogy in the sub-arctic Pacific Ocean
- Shows that features of an estuarine system occur northward of a sub-arctic boundary.

REFERENCES

- MF
61-06071
- Harrison, A. C.** (1960)
Piscator, 13 (47) : 90-3
 Report on two rainbow trout caught in the sea
- Describes records of *Salmo gairdnerii* taken in 1959 indicating presence of sea-run population in the Eerste River, South Africa.
- F
61-06072
- Jubb, R. A.** (1960)
Piscator, 13 (47) : 112-9
 Some Lake Kariba fish problems
- Describes the Zambesi River system's fish fauna, gives an account of the new reservoir impounded by Kariba Dam and discusses some of its fishery problems.
- F
61-06073
- Amlacher, E.** (1960)
Dtsch. FischZtg., 7 (2) : 39-44
 Versuche mit Prowona-Nährhefe als Zusatz im Futter von Regenbogenforellen (Experiments with Prowona nutrient yeast as supplement in the diet of rainbow trout)
- Reviews knowledge on vitamin requirement in trout food; describes experiments carried out and discusses results obtained.
- F
61-06074
- Mattheis, T.** (1960)
Dtsch. FischZtg., 7 (2) : 44-54
 Die infektiöse Nierenschwellung und Leberdegeneration der Forellen (INuL) (The infectious kidney swelling and liver degeneration in trout)
- Reviews literature on symptoms, prevention and control methods; describes own experiments and discusses results obtained.
- F
61-06075
- Wunder, W.** (1960)
Fischwirt, 10 (3) : 71-6
 Verkümmerserscheinungen bei Karpfenbrut (The appearance of atrophy in carp fry)
- Describes and ill. body deformations and discusses the possible causes.
- F
61-06076
- Deufel, J.** (1960)
Fischwirt, 10 (3) : 76-8
 Neuausbruch der infektiösen Nierenschwellung und Leberdegeneration in zwei Forellenzuchtanstalten (New outbreak of the infectious renal tumefaction and liver degeneration in two trout breeding farms)
- Ill. course of disease and recommends precautions.

- F
61-06077
- Nagel, L.** (1959)
Dtsch. FischZtg., 6 (10) : 300-3

Auswertung der Aufzuchtversuche von starken Zandersetzlingen in den Heideteichen der Oberlausitz (Evaluation of rearing experiments with pike perch fingerlings in heath ponds of the Lower Lusatia)

Describes possibilities for: (1) production in normally stocked carp ponds and (2) special ponds with application of white fish fry as food. Suggests (i), since (ii) has led to considerable losses due to cannibalism.

- M
61-06078
- Kotthaus, A.** (1960)
Allg. FischwirtschaftZtg., (17) : 12-4

Vorläufige Ergebnisse der deutschen Seezungen-Markierungen im Jahre 1959 (Preliminary results of the German sole tagging in 1959)

Describes tagging method, reports on migration of individuals, recaptures, and discusses results of experiments.

- M
61-06079
- Dollfus, R.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 385-94

Sur trois helminthes (distomien, tétrarhynque, palaeacanthocéphale) d'un *Melanoglaea ventralis* K. Barnard 1941, poisson téléostéen (On three helminths (distomid, tetra-rhynchid, palaeacanthocephalid) from *Melanoglaea ventralis* K. Barnard 1941, teleostean fish)

Taxonomic descriptions of *Coitocaeum cadenati* n. sp., *Plerocercus: Grillotia* sp. and *Echinorhynchus melanoglaeae* n. sp.

- F
61-06080
- Kiefer, F.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 395-401

Zwei neue Cyclopiden (Crust. Cop.) als Bewohner des Sandlücken Systems im Niger (Französischer Sudan) (Two new cyclopid, Crust. Cop., as habitants of sand interstitial in Niger, French Sudan)

Taxonomic description of the sp.

- M
61-06081
- Tomlinson, J. T.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 402-10

Cryptophialus coronatus, a new species of acrothoracican barnacle from Dakar

Taxonomic description of the sp.

- M
61-06082
- Collignon, J.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 411-64

Observations faunistiques et écologiques sur les mollusques testacés de la baie de Pointe-Noire (Moyen-Congo) (Faunistic and ecological observations on the testacean molluscs of the bay of Pointe-Noire, Middle Congo)

A catalogue of spp. with notes on their zonal distribution.

REFERENCES

- M
61-06083
- Adam, W.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 465-511
 Les céphalopodes de l'Institut Français d'Afrique Noire—2. (The cephalopods of the Institut Français d'Afrique Noire—2.)
 A catalogue of spp. with descriptions of some of them.
- M
61-06084
- Stephen, A. C.** (1960)
Bull. Inst. franç. Afr. Noire, 22 (2) : 512-20
 Echiuroidea and Sipunculoidea from Senegal, West Africa
 A catalogue of spp. with notes on their taxonomy and occurrence.
- MF
61-06085
- Daget, J.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 610-9
 La faune ichthyologique du bassin de la Gambie (The ichthyological fauna of the Gambia Basin)
 A study of the distribution of the fishes classified by groups according to the various areas of the basin.
- M
61-06086
- Monod, T.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 620-98
 A propos du pseudobranchium des *Antennarius* (Pisces, Lophiiformes) (On the pseudobranchium of *Antennarius*, Pisces, Lophiiformes)
 A study of the anatomy, skeleton and muscular system of the pseudobranchium, with some comparative notes.
- M
61-06087
- Fraser, F. C.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 699-707
 A specimen of the genus *Feresia* from Senegal
 A comparative cranial study of the sp. of the genus.
- F
61-06088
- Sand, R. F. & W. G. Gordon** (1960)
Comm. Fish. Rev., 22 (6) : 1-12
 Exploratory fishing in Lake Erie, September 1958-November 1959
 Trawling for *Osmerus mordax*; charts, environmental conditions, etc.
- MF
61-06089
- Anon.** (1960)
Comm. Fish. Rev., 22 (6) : 15-9
 Equipment note no. 4.—A method of making electrical trawl cable terminations and connections
 Trends and developments—Fishing vessels and gear developments.

- M
61-06090
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 32
 University of Miami granted funds for extension of research
 Trends and developments—Oceanic bacteria.
- M
61-06091
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 42
 Biologists survey Arctic fishery resources
 Canada. Arctic Unit, based in Montreal, has made a survey of fish stocks of the Mackenzie and Keewatin Districts. Covered some 21 lakes extending east from Great Bear Lake to the northwest coast of Hudson Bay.
- MF
61-06092
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 46
 Fish farming project proposed
 Iceland. Icelandic citizen is planning a fish-farming project to raise principally sea trout, *Salmo trutta trutta*, for export. He has acquired a tract of land on the Snaefells Peninsula—in western Iceland—adjoining a bay, and by damming up an arm of the bay he expects to create a large fish pond.
- M
61-06093
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 54
 U.S. firm starts fishing for shrimp
 Kuwait.
- M
61-06094
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 55
 Decree prohibits vessels from fishing within nine miles of border
 Mexico.
- M
61-06095
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 57
 Tuna operations
 New Hebrides.
- M
61-06096
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 58
 Survey for mother-of-pearl in Bay of Bengal planned
 Pakistan. Central Government has decided to conduct a survey of the sea bed surrounding St. Martin's Islands off the southern tip of East Pakistan to ascertain the quantity of mother-of-pearl deposits found at a depth of 6 fathoms in 1955.

REFERENCES

Anon. (1960) M
61-06097
Comm. Fish. Rev., 22 (6) : 62-3
 Fisheries in east Asiatic waters

USSR. At the end of 1959 the fisheries in the Soviet Far East were placed under a central administrative organization, the newly-established Directorate for the Fishing Industry in the Far East—Glavdalvostokrybprom.

U.K. Central Office of Information. Reference Division (1959) MF
61-06098
 London, 5 p.
 The fishing industry in Britain

Short survey covering fishing ports, methods of sea fishing, the fleet, landings and imports of fishery products, fresh-water fisheries, and the distribution system. Also described briefly are promotion and regulation of the industry, the 1959 Northeast Atlantic Fisheries Conservation Convention, and whaling activities.

Meschkat, A. (1961) MF
61-06099
Rep. FAO/E.T.A.P., (1305) : 77 p.
 Report to the Government of Brazil on the fisheries of the Amazon Region

Report on FAO project carried out under UN Expanded Technical Assistance Programme. Describes fishable waters of the region with regard to their potential productivity and evaluates fish stocks and fishing possibilities in them. States that fishing and transport processing and preservation techniques used are primitive, fishery administration insufficiently staffed and inadequate for developmental activities. Contains recommendations for further development.

Baschieri-Salvadori, F. (1961) M
61-06100
Rep. FAO/E.T.A.P., (1323) : 12 p.
 Second report to the Government of India on the pearl and chank beds in the Gulf of Manaar

Co 61-04448.

Ruppin, R. (1961) M
61-06101
Rep. FAO/E.T.A.P., (1328) : 17 p.
 Report to the Government of India on fishermen's training centres

Report on FAO project carried out under UN Expanded Technical Assistance Programme. Reports details of organization and operation of two training centres established at Mangalore and Kakinada. Curriculum incl.: general theory of fishing; materials and construction of fishing gear; fishing methods and operation; fishing technique; navigation; seamanship; engine work.

M

Andersson, K. A. (1960)

61-06102

Rep. Inst. mar. Res. Lysekil, (12) : 53 p.

On the causes of the great fluctuations in the herring fishery on the west coast of Sweden

Shows fluctuations not due to changes in hydrographic conditions, but to changes in strength of stock of the North Sea bank herring.

M

Stefánsson, U. (1960)

61-06103

Rit Fiskid., 2 (8) : 18 p.

Temperature at 20 meters in Icelandic waters in May-June 1950-1959

Description of the mean temperatures and their regional variations at 20 m depth in Icelandic waters during the months of May and Jun., 1950 to 1959, and the description of year to year variations of the temperature at the same depth and period.

M

Nanda, J. N. (1960)

61-06104

J. geophys. Res., 65 (6) : 1815-20

The origin of microseisms

Suggestion that the microseisms are caused by the action of suitably oriented winds with rough sea surface.

M

Sengel, P. (1961)

61-06105

C.R. Acad. Sci., Paris, 252 (23) : 3666-8

Survie en culture *in vitro* de divers organes d'invertébrés marins adultes (Survival in *in vitro* culture of various organs of adult marine invertebrates)

Culture of various organs of *Barnea candida* and *Ciona intestinalis* by various methods

F

Wulfert, K. (1960)

61-06106

Arch. Hydrobiol., 56 (4) : 311-33

Die Rädertiere saurer Gewässer der Dübener Heide—2. Die Rotatorien des Krebscherentümpels bei Winkelmühle (Rotifers of the acid waters of the Dübener Heide—2. Rotifers of the Krebscherentümpel by Winkelmühle). En

Taxonomic list and descriptions of the spp. found.

F

Botan, E. A., J. J. Miller & H. Kleerekoper (1960)

61-06107

Arch. Hydrobiol., 56 (4) : 334-54

A study of the microbiological decomposition of nitrogenous matter in fresh water. De

Determination of the kinds and numbers of microorganisms concerned in the aerobic decomposition of nitrogenous matter in fresh water.

REFERENCES

F

61-06108

Jannasch, H. W. (1960)

Arch. Hydrobiol., 56 (4) : 355-69

Versuche über Denitrifikation und die Verfügbarkeit des Sauerstoffes in Wasser und Schlamm (Investigations on denitrification and availability of oxygen in the water and mud). En

Investigation of the influence of oxygen on denitrification and the availability of oxygen for the denitrifying bacteria.

F

61-06109

Bick, H. (1960)

Arch. Hydrobiol., 56 (4) : 378-94

Ökologische Untersuchungen an Ciliaten und anderen Organismen aus verunreinigten Gewässern (Ecological investigations on ciliates and other organisms from polluted waters). En

In laboratory experiments with diluted sewage the chemical processes and the succession of organisms were investigated for 12 weeks. A description of the spp. and the number of organisms during the succession is given. Mainly the ciliates are examined.

F

61-06110

Brinkhurst, R. O. (1960)

Arch. Hydrobiol., 56 (4) : 395-412

Introductory studies on the British Tubificidae (Oligochaeta). De

Description of spp. found.

F

61-06111

Illies, J. (1960)

Arch. Hydrobiol., 56 (4) : 413-24

Zur Kenntnis der neuen Plecopterenfamilie Abranchioperlidae (To the knowledge of the new Plecoptera family Abranchioperlidae). En

In addition to a preliminary description of *Abranchioperla archiplatae* Illies from Chile, the diagnosis of the new family Abranchioperlidae is given.

G

61-06112

Tödt, F. (1959)*

Berlin, Verlag Walter de Gruyter & Co., 212 p.

Elektrochemische Sauerstoffmessungen—Konzentrationsmessungen oxydierender und reduzierender Stoffe durch galvanische Modellelemente (Electro-chemical oxygen measurements—Concentration measurements of oxidizing and reducing matters by means of galvanic model elements)

M

61-06113

Austin, T. S. (1958?)

Proc. Hawaii. Acad. Sci., 33 (1957-58)

Seasonal variations in the oceanographic and the marine biological features in the waters of French Oceania (Marquesas)

Notes on the seasonal variations of oceanographic conditions in relation to the seasonal occurrence and migrations of tunas.

Sjöblom, V. (1960)MF
61-06114*Suom. Kalastusl.*, 67 (3) : 111-23

Kevät-ja syyskutuisista silakoista (On the spring and autumn spawning herring)

A review of the morphological and physiological differences of the two herring races and the variation of the stock sizes of both races in the Baltic.

Lagom, T. (1960)G
61-06115*Suom. Kalastusl.*, 67 (3) : 126-7

Eräs happinäytteen ottotapa (A method of taking oxygen samples)

Description of the method of taking small oxygen samples with a syringe.

Schmidt-Ries, H. (1960)F
61-06116*Gewässer u. Abwässer*, (26) : 118 p.

Untersuchungen über den Wärmehaushalt der Eifelmaare—3. Spezielle Beobachtungen und Messungen in den Bereichen des Pelagial und des Benthos (Investigations on the heat economy of the Eifel Lakes—3. Special observations and measurements in the pelagic and benthic zone)

Description of the temperature profiles in the lakes and their annual cycles.

Balon, E. K. (1960)MF
61-06117*Biológia*, 15 (5) : 373-6

Najvýhodnejšia metóda vyhotovovania preparátov šupín pre štúdium veku a rastu rýb (The most advantageous method of preparing scales for the study of age and growth in fishes). De Ru

Ill. new method using Alizarin-red S in the solution and gives technical details on scale reading.

Robson, D. S. (1960)FG
61-06118*Biometrics*, 16 (2) : 261-77

An unbiased sampling and estimation procedure for creel censuses of fishermen

Describes details of theoretical procedure for stream and lake studies, to estimate catch and fishing effort. Plan not yet tested in practice.

Elster, H.-J. (1960)F
61-06119*Gas- u. Wasserfach*, 101 (8) : 1-10

Der Bodensee als Organismus und die Veränderungen seines Stoffwechsels in den letzten Jahrzehnten (Lake Constance as 'organism' and the changes of its "metabolism" in the recent decades)

Description of thermal stratification and seasonal changes, flow of water, through the lake, quantitative distribution of plankton and basic organic production, distribution of water quality and pollution problems.

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MF

61-06120

Netherlands. Centraal Bureau voor de Statistiek (1960)
 Uitgevers aatschappij W. de Haan N.V., Zeist, 32 p.
 Statistiek van de visserij 1959

General review, landings by spp., gears, areas, type of craft and port; incl. separately shellfish, freshwater fisheries and whales. Also prices; nos. of boats and men engaged.

F

61-06121

Hoffmann, M. (1959)

Dtsch. Fisch Ztg., 6 (12) : 365-9

Der heutige Stand der Bisam-Bekämpfung in der Deutschen Demokratischen Republik (The present situation of the muskrat control in the German Democratic Republic)

M

61-06122

Subklew, H.-J. (1959)

Dtsch. Fisch Ztg., 6 (12) : 370-2

Graphische Darstellung von Fangerträgen im Greifswalder Bodden (Graphical illustration of the yield of catch from the Greifswalder Bodden)

Analyzes quantity and composition of catch.

F

61-06123

Seemann (1960)

Fischwirt, 10 (6) : 170-1

Die Schleswig-Holsteinische Binnenfischerei im Jahre 1959 (The inland fisheries in Schleswig-Holstein in 1959)

Statistical abstr.

M

61-06124

Brown, F. A., Jr., et al. (1960)

Biol. Bull., Woods Hole, 118 (3) : 367-81

Magnetic response of an organism and its solar relationships

Describes and ill. apparatus, and results of experiments with mud-snail *Nassarius obsoleta* from Massachusetts.

M

61-06125

Brown, F. A., Jr., H. M. Webb & W. J. Brett (1960)

Biol. Bull., Woods Hole, 118 (3) : 382-92

Magnetic response of an organism and its lunar relationships

Co 61-06124.

M

61-06126

Fingerman, M. & W. C. Mobberly, Jr. (1960)

Biol. Bull., Woods Hole, 118 (3) : 393-406

Investigation of the hormones controlling the distal retinal pigment of the prawn *Palaemonetes*

Ci 59-4786.

M

Föyn, B. (1960)

61-06127

Biol. Bull., Woods Hole, 118 (3) : 407-11Sea-linked inheritance in *Ulva*

Genetics of culture of this alga, *U. mutabilis*, in which a sex-linked mutant arose spontaneously.

F

Freeman, J. A. (1960)

61-06128

Biol. Bull., Woods Hole, 118 (3) : 412-8

Influence of carbonic anhydrase inhibitors on shell growth of a fresh-water snail, *Physa heterostropha*

M

Goreau, T. F. & N. I. Goreau (1960)

61-06129

Biol. Bull., Woods Hole, 118 (3) : 419-29

The physiology of skeleton formation in corals—3. Calcification rate as a function of colony weight and total nitrogen content in the reef coral *Manicina areolata* (Linnaeus)

Co 61-02953. Ci 59-4412.

M

Metz, C. B. (1960)

61-06130

Biol. Bull., Woods Hole, 118 (3) : 439-50

Investigation of the fertilization inhibiting action of *Arbacia* dermal secretion

MF

Triplett, E. L. & S. Barrymore (1960)

61-06131

Biol. Bull., Woods Hole, 118 (3) : 463-71

Tissue specificity in embryonic and adult *Cymatogaster aggregata* studied by scale transplantation

Ci 570850. Homografting experiments with this viviparous embiotocid from NW Pacific. Comparison with *Carassius*, *Xiphophorus*, *Amphistichus* and *Hyperprosopon*.

M

Triplett, E. L. & S. D. Barrymore (1960)

61-06132

Biol. Bull., Woods Hole, 118 (3) : 472-8

Some aspects of osmoregulation in embryonic and adult *Cymatogaster aggregata* and other embiotocid fishes

Determination of osmotic pressure of serum and body weight change after exposure of *Cymatogaster*, *Amphistichus* and *Micropterus*—NW Pacific—to experimental salinities. Special reference to *in vitro* culture of embryos of these viviparous fishes.

REFERENCES

- MF
61-06133
- Pochmann, A. (1959)**
Ber. dtsh. bot. Ges., 72 (2) : 99-108
 Über die Tätigkeit der nichtkontraktilen Importvakuole und den Modus der Osmoregulation bei dem Salzflagellaten *Choanogaster* nebst Bemerkungen über die Funktion der Pusulen (On the activity of the noncontractile importvacuoles and the way of osmoregulation by the salt water flagellate *Choanogaster* with notes on the function pusules)
- F
61-06134
- Pochmann, A. (1958)**
Ost. bot. Z., 104 (4-5) : 321-41
 Zweiter Beitrag zur Kenntnis der Struktur, Entwicklung und Zerteilung der Paramylonkörner (Second contribution to the knowledge of the structure, development and division of paramylon grains)
- M
61-06135
- Wooster, W. S. (1960)**
Deep-Sea Res., 6 (4) : 263-4
 The Cromwell Current—Introduction. Investigations of equatorial undercurrents
- M
61-06136
- Knauss, J. A. (1960)**
Deep-Sea Res., 6 (4) : 265-86
 Measurements of the Cromwell Current
 Velocity contours of the current, as obtained by direct measurements.
- M
61-06137
- Arthur, R. S. (1960)**
Deep-Sea Res., 6 (4) : 287-97
 A review of the calculation of ocean currents at the equator
 Various formulae are considered from the standpoint of consistency with an undercurrent. The most promising formula appears to be that derived from the geostrophic approximation for zonal motion.
- M
61-06138
- Stommel, H. (1960)**
Deep-Sea Res., 6 (4) : 298-302
 Wind-drift near the equator
 The principal result of the model is to show that a linear theory constructed from Ekman spiral and geostrophic current exhibits some qualitative similarity to the equatorial undercurrent, but that in order to account for the observed amplitude of the phenomenon, non-linearities are not altogether negligible.
- M
61-06139
- Charney, J. G. (1960)**
Deep-Sea Res., 6 (4) : 303-10
 Non-linear theory of a wind-driven homogeneous layer near the equator
 Deals with the equatorial motion produced by a uniform east wind blowing over a homogeneous ocean of constant depth. The motion is calculated for several values of the coefficient of eddy-viscosity. An analogy is drawn between the western boundary currents and the equatorial undercurrents.

Robinson, A. R. (1960)M
61-06140*Deep-Sea Res.*, 6 (4) : 311-7

The general thermal circulation in equatorial regions

An approximation valid near the equator is developed for a model of the general thermal circulation. The existence of equatorial effects is related to the vanishing of the Coriolis parameter, and the equatorial approximation is related to the mid-latitude circulation. Qualitative features of the solutions are discussed.

Veronis, G. (1960)M
61-06141*Deep-Sea Res.*, 6 (4) : 318-27

An approximate theoretical analysis of the equatorial undercurrent

Theoretical study of the dynamics of a system with inclining surface, with emphasis on the vertical structure of gradient countercurrent.

Neumann, G. (1960)M
61-06142*Deep-Sea Res.*, 6 (4) : 328-34

Evidence for an equatorial undercurrent in the Atlantic Ocean

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61-06143*Deep-Sea Res.*, 6 (4) : 335-45

Micro-organisms as indicators of hydrological phenomena in seas and oceans—3. Distribution of water masses in the central part of the Pacific Ocean (according to microbiological data)

A study of the vertical distribution of the numbers of heterotrophs at 56 stations in the Pacific Ocean along two parallel sections—174° W and 172° E from 37° N to 41° S; and detection of the deep water circulation pattern from the content and distribution of these heterotrophs.

Dansgaard, W. (1960)M
61-06144*Deep-Sea Res.*, 6 (4) : 346-50

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Topographie dynamique et courants généraux dans le bassin occidental de la Méditerranée (Golfe du Lion, Mer Catalane, Mer d'Alboran et ses abords, secteur à l'est de la Corse) (Dynamic topography and general currents in the western Mediterranean—Gulf of Lion, Catalan Sea, Alboran Sea and adjacent water, area to the east of Corsica)

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9. ERRATA AND ADDENDA to “ EXPLANATION OF COVERAGE AND ARRANGEMENT ” (contd.)

3. REFERENCES

3.1 Authors

Delete the heading “ *Names and Abbreviations of Organizations* ” and replace it by:

“ *Names and Abbreviations of Organizations and Projects* ”

Names and Abbreviations of Organizations and Projects

Delete the following:

EAFRO ..	..	East African Fisheries Research Organization
OEEC ..	..	Organization for European Economic Cooperation
OEEC/EPA ..	..	European Productivity Agency

Insert, in alphabetic order, the following:

ACC (ECOSOC) ..	..	Administrative Committee on Coordination
CEE ..	..	<i>see</i> EEC
EAFRO ..	..	East African Freshwater Fisheries Research Organization
EEC ..	..	European Economic Community Communauté Économique Européenne Comunidad Económica Europea
EFPW ..	..	European Federation for the Protection of Waters Fédération Européenne pour la Protection des Eaux Föderation Europäischer Gewässerschutz
FEPE ..	..	<i>see</i> EFPW
FEG ..	..	<i>see</i> EFPW
IAPT ..	..	International Association of Plant Taxonomy
ICC ..	..	International Computation Centre. (Supersedes from April 1962 the Provisional ICC (PICC)) Centre International de Calcul
IIOE ..	..	International Indian Ocean Expedition
ING ..	..	Index Nominum Genericorum
IOC (UNESCO) ..	..	Intergovernmental Oceanographic Commission
IPI ..	..	International Plant Index
ISA ..	..	Instrument Society of America (U.S.A.)
NODC ..	..	National Oceanographic Data Center (U.S.A.)
NWPFC ..	..	Northwest Pacific Fisheries Commission
OCDE ..	..	<i>see</i> OECD
OECD ..	..	Organization for Economic Cooperation and Development. (Supersedes from October 1961 OEEC) Organisation de Coopération et de Développement Économiques
UNSF ..	..	United Nations. Special Fund Fonds Spécial des Nations Unies Fondo Especial de las Naciones Unidas

3.5 *Titles*

Languages, English and native names and symbols

Insert, in alphabetic order, the following:

Maltese

Malti

Met

5. INDEXES

5.4 *Subject*

Insert as the third paragraph on page Ex 81 the following new paragraph:

"Entries dealing with physical and chemical oceanography are also indexed according to the recently revised Universal Decimal Classification 551.46 Physical Oceanography. The indexing is done by Dr. L. Otto through the cooperation of the Royal Netherlands Meteorological Institute, and under the general supervision of Dr. P. Groen. Dr. Groen was chairman of the committee of I.A.P.O. which revised the classification. Copies of this revision are available on application from the Present Chairman of the IAPO Committee, Dr. Model, Deutsches Hydrographisches Institut, Hamburg. This Section of the UDC is being assimilated into the FAO Decimal Classification for Aquatic Sciences and Fisheries, which will eventually be used for the entire subject indexing of CBASF."

Insert, at the end of "Modified (ICES) " Classification " Subject—Two Digit Code " (Ex 83) the following:

Universal Decimal Classification—Physical Oceanography

551.46 *Physical oceanography. Submarine topography*

Roughly corresponding in two digit subject code with:

.460	General aspects of Physical oceanography	2.1
.461	General features. Sea level and horizontal extent	2.2
.462	Submarine topography. Bottom forms	2.3
.463	Sea water. Physical properties of sea water	2.4
.464	Chemical properties of sea water. Chemistry of sea water	2.5
.465	Structure, dynamics and circulation of seas	2.6
.466	Sea waves and tides	2.7
.467	Ice in the sea	2.8
.468	Coastal oceanography and special oceanographic forms	2.9

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VOLUME 5—ERRATA

61-024er

Author: Transvaal. Provincial Administration (1958) *should read*
Groenewald, A. A. v. J. (1958)

61-024er
(60-2064)

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VOLUME 5—ADDENDA

61-133ad to 61-139ad

Title: An angler's guide to the yellow fishes of the Transvaal. Ne 61-133ad
(60-2064)

Annotation: Issued also as: *Veröff. Inst. Fisch. Humboldt-Univ.,* 61-134ad
Berl., (177). (61-00507)

Ref.: 2 (1) : 51-64 61-135ad

Annotation: Properties and functions of organs investigated in (61-02268)
Procambarus clarkii (Girard) and *Panulirus interruptus* (Randall).
New terminology proposed for specification of thoracic and
abdominal organs.

Ref.: 2 (2) : 90-9 61-136ad

Annotation: Labelled iodides, added to immersion water, are fixed (61-04022)
by larvae. Kinetics of binding and repartition of radioactivity
in tissues of ammocoetes were studied.

Ref.: 2 (1) : 65-75 61-137ad

Annotation: Serum, cranial fluid, perilymph, endolymph and jelly (61-02727)
from the ampullae of Lorenzini of *Raja* analysed for Na, K, Cl, and
urea.

Ref.: 2 (3) : 173-80 61-138ad

Annotation: Examined by chromatographic methods. Comparison (61-04622)
with *Homarus*.

Ref.: 2 (3) : 218-20 61-139ad

Annotation: Crabs, *Hemigrapsus nudus*, utilize glucose as an (61-04623)
oxidative substrate in all stages of the intermoult cycle, as shown
by isotopic labelling experiments.

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Hydrobiologia, 15 (1-2) : 1-77
 Révision du genre *Euplotes*, fondée sur la comparaison des structures superficielles (Revision of the genus *Euplotes*, based on comparisons of the superficial structures)
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61-06295
- Spaas, J. T.** (1960)
Hydrobiologia, 15 (1-2) : 78-88
 Contribution to the comparative physiology and genetics of the European Salmonidae—3. Temperature resistance at different ages
 Comparisons of *Salmo salar*, *S. trutta trutta* and *S. trutta fario*.
- F
61-06296
- Cridland, C. C.** (1960)
Hydrobiologia, 15 (1-2) : 135-60
 Laboratory experiments on the growth of *Tilapia* spp.—1. The value of various foods
 Describes tests of relative value of several foods fed to *Tilapia esculenta* fry, all of which were reared from a single batch of eggs.
- F
61-06297
- Fish, G. R.** (1960)
Hydrobiologia, 15 (1-2) : 161-78
 The comparative activity of some digestive enzymes in the alimentary canal of *Tilapia* and perch
 Presents data on digestion in *Tilapia mossambica*, *Perca fluviatilis* and some comparisons with *Zoarcas viviparus*, *Salmo trutta*, *Tinca tinca* and *Ctenopharyngodon idellus*.
- F
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- Gledhill, T.** (1960)
Hydrobiologia, 15 (1-2) : 179-88
 The Ephemeroptera, Plecoptera and Trichoptera caught by emergence traps in two streams during 1958
 Captures from a high mountain stream are compared with those from a warmer lower stream—both in England.
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61-06299
- Alm, G.** (1960)
Svensk Fisk. Tidskr., 69 (6-7) : 82-7
 Rödningfisket i Vättern och orsakerna till dess fluktuationer (The fishery for char in Lake Vättern and reasons for its fluctuations)
 Growth of the fish and distribution of the sizes and the catches and variation of the catches.

- F
61-06300
- Molin, G.** (1960)
Svensk Fisk. Tidskr., 69 (6-7) : 89-92
 Färg—Fisklighet (Colour and fishability)

Results of the experiments with differently coloured nets and their ability to catch various fish spp. in different lakes.

- MF
61-06301
- Ryhänen, R.** (1960)
Svensk Fisk. Tidskr., 69 (6-7) : 94-5
 Laxöringlek i insjöar (The spawning of sea trout in the lakes)

Notes on the observations of trout spawning in the lakes and in the Baltic Sea.

- M
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- Henriquez, O. S.** (1960)
Caribbean, 14 (4) : 62-4, 100
 Aruba depends on sea-water

Description of sea-water purification units and supply of fresh-water.

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Caribbean 14 (4) : 65-8
 Probing Caribbean waters

Describes the marine environment of Curaçao, and the facilities of Caribbean Marine Biological Institute recently built there.

- M
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- Anon.** (1960)
Caribbean, 14 (4) : 97
 Fisheries survey to begin soon—Surinam

Short note on deep-sea fishing exploration to be soon started.

- M
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- Anon.** (1960)
S. Afr. Shipp. News Fish. Ind. Rev., 15 (4) : 59
 Trawling industry achieves a record catch for seventh successive year

Brief statistical review of trawl fishery; notes on pilchard and maasbanker catch; and status of pelagic shoal fishing at Walvis Bay.

- M
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- Anon.** (1960)
S. Afr. Shipp. News Fish. Ind. Rev., 15 (4) : 61
 Research boats test rock lobster traps

Ill. notes on construction of a collapsable new trap and brief account of results of tests.

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- EIFAC (1960)**
Rome, FAO, 58 p.
First session, Dublin (25-30 April 1960)—Report
- Contains historical introduction, general account of session—constitutional matters; general review of European inland fisheries problems. Annexes list participants and documents, agenda, rules of procedure, texts of opening statements.
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- Das, S. M. (1960)**
Curr. Sci., 29 (6) : 220
High altitude fisheries with special reference to Kashmir
- Considers possible cultivation of the Himalayan trout, *Schizothorax*, and its hybrids with *Oreinus* (*Plagiostomus*). Possible introduction of *Cyprinus carpio*, *Salmo trutta fario* and *S. gairdneri*.
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- Srinivasan, K. S. (1960)**
Curr. Sci., 29 (6) : 239-40
Report on *Cerataulus turgidus* Ehr. from Indian waters
- Diatom reported for first time from region, Chilka Lake, Orissa.
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- Gopalakrishnan, V. & P. D. Gupta (1960)**
Curr. Sci., 29 (6) : 240
An eye disease which causes mortality of the fish *Catla catla* (Hamilton and Buchanan)
- Symptoms of specific disease in West Bengal stock; may be bacterial or virus; experiments on control by aeration and lime addition, removal of decaying matter from water, disinfection with permanganate.
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Curr. Sci., 29 (6) : 247
Water discharge of world rivers
- Note on new map compiled by Soviet hydrologist M. Lvovich. Drainage from various land masses into each ocean.
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- Baggerman, B. (1960)**
J. Fish. Res. Bd Can., 17 (3) : 295-322
Salinity preference, thyroid activity and the seaward migration of four species of Pacific salmon (*Oncorhynchus*)
- Chum, pink, coho and sockeye changed preference from fresh to salt water at onset of seaward migration and maintained this throughout migration season. At the end of this period coho and sockeye changed preference from salt to fresh water if retained in fresh water, indicating a readaptation to this medium. Chum and pink fry did not show this.

- MacLeod, R. A., R. E. E. Jonas & E. Onofrey (1960) MF
J. Fish. Res. Bd Can., 17 (3) : 323-35 61-06313

A biochemical study of coho salmon (*Oncorhynchus kisutch*) maturing sexually in an aquarium

Migrating salmon captured near their entry into fresh water underwent sexual maturation when confined in an aquarium. Analyses of skeletal muscle, lateral line muscle, kidney, liver, heart, milt and roe for fat, protein and water, and skeletal muscle for sodium and potassium were made. Blood was analysed for total protein, non-protein nitrogen, amino acids, glucose, sodium and potassium. Respiratory rates and glycolytic activities of the tissues analysed were also determined.

- Strickland, J. D. H. & K. H. Austin (1960) M
J. Fish. Res. Bd Can., 17 (3) : 337-45 61-06314

On the forms, balance and cycle of phosphorus observed in the coastal and oceanic waters of the northeastern Pacific

Date required for determination of various forms of phosphorus are discussed. Precision by modified Hansen-Robinson perchloric oxidation method evaluated and results given for particulate phosphorus and for soluble inorganic and organic phosphorus.

- Wood, J. D., D. W. Duncan & M. Jackson (1960) MF
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Biochemical studies on sockeye salmon during spawning migration—11. The free histidine content of the tissues

During spawning migration of Fraser River *Oncorhynchus nerka*, the histidine decreased to small fraction of initial value in some tissues but not in others.

- Tabata, S. (1960) M
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Characteristics of water and variations of salinity, temperature, and dissolved oxygen content of the water at ocean weather station "P" in the northeast Pacific Ocean

Vertical distribution of these factors examined for water characteristics, and deviations about their mean values. Based on surveys every alternate six-weeks, Aug. 1956 to Jul. 1958, incl. data above the depth of 1500 m. Temperature-salinity diagrams. Causes of variations are discussed.

- Tomlinson, N., V. M. Creelman & K. G. Reid (1960) X
J. Fish. Res. Bd Can., 17 (3) : 371-6 61-06317

The phosphorus-containing fractions of sterile lingcod muscle during storage at 0°C¹

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An oceanographical and biological reconnaissance of Kennebecasis Bay and the Saint John River estuary

Preliminary survey in 1957-58 as part of International Passamaquoddy Fisheries Board Program.

- Legaré, J. E. H. & D. C. Maclellan (1960) M
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J. Fish. Res. Bd Can., 17 (3) : 409-48

A qualitative and quantitative study of the plankton of the Quoddy Region in 1957 and 1958 with special reference to the food of the herring

- Fridthjof, J. (1958) MF
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Rep. FAO/E.T.A.P., (694) : 24 p.

Informe al Gobierno de Mexico sobre el consumo y la distribución del pescado en los mercados (Report to the government of Mexico on consumption and distribution of fish on the market)

Report on FAO project carried out under UN Expanded Technical Assistance Programme. Reviews fish marketing in Mexico, reports on activities developed for increasing consumption and recommends future lines of action.

- Christmas, J. Y., G. Gunter & E. C. Whatley (1960) M
61-06321
Spec. sci. Rep. U.S. Fish. Wildl. Serv., (339) : 10 p.

Fishes taken in the menhaden fishery of Alabama, Mississippi and eastern Louisiana

A study was made of the fishes other than menhaden taken by menhaden purse seiners in waters around the mouth of the Mississippi River and in Mississippi Sound during the 1958 and 1959 seasons. In numbers of fish, more than 97% of the sampled catch were menhaden. The following 10 spp., given in order of their abundance, made up over 90% of the other fishes caught: *Mugil cephalus*, *Micropogon undulatus*, *Leiostomus xanthurus*, *Dorosoma petenense*, *Bagre marina*, *Galeichthys felis*, *Cynoscion arenarius*, *Poronotus triacanthus*, *Cynoscion nothus* and *Lagodon rhomboides*.

- Taranto. Istituto Sperimentale Talassografico (1958) MF
61-06322
Thalassia jon., 1 : 134 p.

Contains 61-06323 to 61-06328, and incl. brief report on activities of the Thalassographic Institute of Taranto in the biennium 1956-57—with list of publications, and a note on a *Balaenoptera physalus* stranded in Jan. 1957 on the Island of Ponza, with identification of its parasites, and account of strandings of cetaceans in this area.

- MF
61-06323
- Parenzan, P. (1958)**
Thalassia jon., 1 : 5-59
 Indagini eseguite per il disciplinamento giuridico, tecnico e sanitario della molluschicoltura e del commercio dei molluschi eduli in Italia (Investigations carried out for the juridical, technical and sanitary discipline of mollusc culture and commerce of edible molluscs in Italy)
- M
61-06324
- Vardaro, E. (1958)**
Thalassia jon., 1 : 61-4
 Sul rapporto solfato-cloruri nelle acque del Mar Piccolo, del Mar Grande e del Golfo di Taranto (On the sulfate-chlorite relation in the Little Sea, the Big Sea and the Gulf of Taranto)
- M
61-06325
- Sebastio, C. (1958)**
Thalassia jon., 1 : 65-72
 Determinazione dei caratteri di vitalità e freschezza delle ascidie eduli (Determination of characters of vitality and freshness of edible ascidians).
 En Fr
 Various observations on *Microcosmus* sp. from Taranto.
- M
61-06326
- Parenzan, P. (1958)**
Thalassia jon., 1 : 73-87
 Un caso di "teratocenosi" ittica nel Mar Piccolo di Taranto (A case of fish "teratocenosis" in the Little Sea of Taranto)
 Observations on specimens of *Gobius ophiocephalus*. Reviews occurrences reported on other fishes; discusses the abnormality generally.
- M
61-06327
- Parenzan, P. (1958)**
Thalassia jon., 1 : 89-115
 Ricerche sulla possibilità di valorizzazione del sedimento del Mar Piccolo di Taranto (Investigations of the possible valorization of the sediments in the Little Sea of Taranto)
- M
61-06328
- Sarno, M. (1958)**
Thalassia jon., 1 : 117-21
 Bonifica del Mar Piccolo (The dredging of the Little Sea)
- MF
61-06329
- Taranto. Istituto Sperimentale Talassografico (1959)**
Thalassia jon., 2 : 139 p.
 Contains 61-06330 to 61-06338, and also "Notices"; first deep trawling and dredging cruise in Ionian Sea, by 'Titano'; experiments on action of electricity on marine animals; participation in meetings, exchanges of periodicals, relations with FAO, various research studies; list of collaborating systematists; studies of vitality and edibility of ascidians and echinoderms; development of Museum of the Institute.

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I fondi a *Caulerpa* del Mediterraneo (Ionio e Tirreno) (The *Caulerpa* beds of the Mediterranean—Ionian and Tyrrhenian Seas)
- M
61-06331
- Parenzan, P.** (1959)
Thalassia jon., 2 : 15-45
Biocenologia bentonica: il fondo ad ascidie (Benthonic biocoenology: ascidian beds)
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61-06332
- Pierpaoli, I.** (1959)
Thalassia jon., 2 : 46-51
L'epifittismo nelle alghe—Nota sugli ambienti tarantino e anconetano (The epiphytism in algae—Note on the environment of Taranto and Ancona)
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- Bellan, G.** (1959)
Thalassia jon., 2 : 52-5
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- Parenzan, P.** (1959)
Thalassia jon., 2 : 57-69
Effetti della corrente elettrica sugli animali marini—1. Azione della corrente alternata su *Carcidines maenas* (L.) (The effect of electric current on marine animals—1. Action of alternate current on *Carcidines maenas* (L.))
- M
61-06335
- Milo di Villagrazia, P.** (1959)
Thalassia jon., 2 : 70-81
Recenti progressi dei metodi d'analisi con l'interferometria ottica, per la determinazione della salinità delle acque marine (Recent progress in the methods of analysis with optic interferometry for the determination of the salinity of marine waters). Fr De
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61-06336
- Sebastio, C.** (1959)
Thalassia jon., 2 : 82-108
Sugli echinodermi eduli dei mari italiani e determinazione dei loro caratteri de vitalità e freschezza (On the edible echinoderms of Italian seas and determination of their characters of vitality and freshness). En Fr
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61-06337
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Il fondo a deposito neritico di Vivara (The sea bottom with neritic sediment at Vivara)

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Thalassia jon., 2 : 137-9
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- Data regarding impermanence of beach, algal growth, *Eurydice* abundance.

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Ilyodromus estonicus n. sp.—Novyi presnovodnyi rakushkovyi rachok iz Estonii (*Ilyodromus estonicus* n. sp.—A new fresh water ostracod in Estonia).
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The opal contents of recent marine sediments are ascertained by conversion of the opal to cristobalite by heating and by a subsequent quantitative x-ray diffraction analysis of the cristobalite.

- F
61-06492
- Gould, H. R. & T. F. Budinger (1958)**
J. Mar. Res., 17 : 183-98
 Control of sedimentation and bottom configuration by convection currents, Lake Washington, Washington

Bathymetry, stratification of sediments, and description of factors affecting the sedimentation.

- M
61-06493
- Groves, G. & W. Munk (1958)**
J. Mar. Res., 17 : 199-214
 A note on tidal friction

The moon's gravitational torque on the ocean tide has been computed on the basis of Dietrich's cotidal charts. It is concluded that the deceleration of the moon's orbital motion and the associated deceleration of the earth's rotation may be due to oceanic tidal dissipation.

- M
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- Henry, D. P. (1958)**
J. Mar. Res., 17 : 215-34
 Intertidal barnacles of Bermuda

Taxonomic description of the spp.

- M
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- Hidaka, K. (1958)**
J. Mar. Res., 17 : 235-46
 Boundaries in the theory of ocean currents

Describes a technique of using artificial water boundaries in theories of ocean currents. As boundary values, geostrophic currents are suggested.

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Jeffrey, L. M. & D. W. Hood (1958) M
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J. Mar. Res., 17 : 247-71

Organic matter in sea water; an evaluation of various methods for isolation

Five methods of isolating organic materials from salt solutions are evaluated for applicability in separating organic and inorganic constituents of sea water. A C₁₄-labeled aged algae culture was used as a test solution to determine the effectiveness of various methods of isolating total dissolved organic material.

Johnson, M. W. (1958) M
61-06497
J. Mar. Res., 17 : 272-81

Observations on inshore plankton collected during summer 1957 at Point Barrow, Alaska

Analyses of 34 net tows, collected 16 Jul. to 16 Aug. 1957 to depths of about 66 m.

Ketchum, B. H., R. F. Vaccaro & N. Corwin (1958) M
61-06498
J. Mar. Res., 17 : 282-301

The annual cycle of phosphorus and nitrogen in New England coastal waters

Distributions of phosphorus and nitrogen in New England coastal waters at various times of year are described. The ratio of concentrations by atoms, N : P, varies in surface waters from 10 : 1 to values approaching zero. In deep offshore waters the N : P ratio is about 12.5 : 1 and no significant seasonal variation could be detected.

Koczy, F. F. & H. Titze (1958) M
61-06499
J. Mar. Res., 17 : 302-11

Radium content of carbonate shells

Determination of Ra/Ca ratio in shells from various seas and discussion on the residence time of Ra in surface waters.

Krey, J. (1958) M
61-06500
J. Mar. Res., 17 : 312-24

Chemical determinations of net plankton, with special reference to equivalent albumin content

Determination of organic substance, total nitrogen albumin equivalents and dry substance in net plankton samples.

Laevastu, T. (1958) M
61-06501
J. Mar. Res., 17 : 325-34

The occurrence of pigments in marine sediments

Qualitative and quantitative studies of pigments in marine sediments, using chromatographic and spectrophotometric methods.

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- Lyman, J., R. F. Barquist & A. V. Wolf (1958)**
J. Mar. Res., 17 : 335-40
 A new method for direct determination of salinity

Determination of the salinity by freeze-drying and determining residual water in the salt with Karl Fischer reagent.

- M
61-06503
- Marshall, S. M. & A. P. Orr (1958)**
J. Mar. Res., 17 : 341-6
 Some uses of antibiotics in physiological experiments in sea water

Test of various antibiotics in suppressing the bacterial action in sea water and their effects on physiology of other marine animals—specially zooplankton.

- M
61-06504
- Merriman, D. & M. Merriman (1958)**
J. Mar. Res., 17 : 347-74
 Sir C. Wyville Thomson's letters to Staff-Commander Thomas H. Tizard, 1877-1881

These original letters from Thomson to Tizard are concerned with the publication of the results of the 'Challenger' expedition, the study of the Faroe Channel and the eventual delineation of the Wyville Thomson Ridge.

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- Miller, R. C. (1958)**
J. Mar. Res., 17 : 375-82
 The relict fauna of Lake Merced, San Francisco

Notes on the history of the lake and description of the relict fauna—5 spp.—with marine affinities.

- M
61-06506
- Miyake, Y. & K. Saruhashi (1958)**
J. Mar. Res., 17 : 383-9
 Distribution of man-made radioactivity in the North Pacific through summer 1955

Horizontal and vertical distribution of radioactivity which originated from the Bikini and Eniwetok tests.

- M
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- Pate, J. B. & R. J. Robinson (1958)**
J. Mar. Res., 17 : 390-402
 The (ethylenedinitrilo) tetraacetate titration of calcium and magnesium in ocean waters

Various factors influencing the determination of calcium in ocean water by (ethylenedinitrilo) tetraacetate titration have been investigated. Using Cal-Red as indicator, the method has been applied in titrating 36 ocean samples.

- M
61-06508
- Pritchard, A. W., E. Florey & A. W. Martin (1958)**
J. Mar. Res., 17 : 403-11

Relationship between metabolic rate and body size in an elasmobranch (*Squalus suckleyi*) and in a teleost (*Ophiodon elongatus*)

A method using polyethylene tubing of various sizes and a flow of water commensurate with the size of the specimen has been employed to determine the resting metabolic rates of large fish.

- MF
61-06509
- Pritchard, D. W. (1958)**
J. Mar. Res., 17 : 412-23

The equations of mass continuity and salt continuity in estuaries

Equations of mass—or volume—continuity and salt continuity are developed for the 2- and 1-dimensional estuary from the basic forms of these equations in three dimensions. The three cases of vertical, lateral and sectional homogeneity are treated.

- G
61-06510
- Proudman, J. (1958)**
J. Mar. Res., 17 : 424-8

A damped Kelvin-wave of general form

Concerned with a long free progressive wave in a channel of uniform width and depth when there is no component of current transverse to the channel.

- M
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- Bakestraw, N. W. (1958)**
J. Mar. Res., 17 : 429-31

Particulate matter in the oxygen-minimum layer

Vertical distribution of particulate nitrogen in some stations in North Pacific to show that particulate matter does not accumulate in O₂ minimum layer.

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61-06512
- Redfield, A. C. (1958)**
J. Mar. Res., 17 : 432-48

The influence of the continental shelf on the tides of the Atlantic coast of the United States

Examination of the hypothesis that the tide along the eastern coast of the United States results from a co-oscillation of water over the continental shelf engendered by motion at the continental slope, the barrier against which the oceanic tidal wave is reflected.

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- Richards, F. A. (1958)** M
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J. Mar. Res., 17 : 449-65
 Dissolved silicate and related properties of some western North Atlantic and Caribbean waters
- Dissolved silicate, phosphate, nitrate and oxygen as well as salinity and temperature were observed in several regions. It is shown that silicate is generally in low concentration in surface waters, where its ratio to phosphate, nitrate, and oxygen consumption is variable. At intermediate depths, regeneration and oxygen consumption (AOU) proceed in the ratios, by atoms, of $\Delta\text{AOU} : \Delta\text{Si} : \Delta\text{N} : \Delta\text{P} = 270 : 16 : 16 : 1$.
- Riley, J. P. & P. Sinhaseni (1958)** M
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J. Mar. Res., 17 : 466-82
 Chemical composition of three manganese nodules from the Pacific Ocean
- Three manganese nodules from the Pacific Ocean have been analysed for 35 elements by using mainly spectrophotometric and spectrographic methods.
- Rochford, D. J. (1958)** M
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J. Mar. Res., 17 : 483-504
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- Seasonal isentropic analyses of salinity and oxygen distribution on the 27.20 and 26.80 σ_t surfaces in the SE Indian Ocean.
- Swan, E. F. (1958)** M
61-06516
J. Mar. Res., 17 : 505-22
 Growth and variation in sea urchins of York, Maine
- Study of their size-frequency distribution. Test height, test weight, number of wedges in the spines, number of pore-pairs in the ambulacral arcs, number of ocular plates insert, and number of coronal plates have been related to test diameter.
- Tully, J. P. (1958)** MF
61-06517
J. Mar. Res., 17 : 523-35
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- Description of fresh water transport mechanism, tidal flushing, turbulent mixing, structure and water transport.
- Waldichuk, M. (1958)** M
61-06518
J. Mar. Res., 17 : 536-51
 Some oceanographic characteristics of a polluted inlet in British Columbia
- Description of physical chemical characteristics of Neroutsos Inlet, British Columbia, in Aug. 1957, and the effects of pollution by a sulphite pulp mill.

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J. Mar. Res., 17 : 552-66

On the reliability of field measurements of temperature and salinity in the ocean

Evaluation of measurement errors and examination of the effects of errors on computed values of geostrophic current.

- Yentsch, C. S. & R. F. Scagel (1958) M
61-06520
J. Mar. Res., 17 : 567-83

Diurnal study of phytoplankton pigments—An *in situ* study in East Sound, Washington

The effect of light intensity on the quantities of chlorophyll and carotenoid pigments in a natural marine diatom community has been observed. Rates of synthesis and decomposition throughout the day have been computed.

- Jones, I. C. (Ed.) (1960) MF
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Symp. zool. Soc. Lond., (1) : 180 p.
 Hormones in fish

Proceedings of a symposium held at the Zoological Society of London, Regent's Park, London, N.W.1 on 13 Oct. 1959, containing 61-06522 to 61-06534. Bibliographies appended to the individual contributions.

- Morris, R. (1960) MF
61-06522
Symp. zool. Soc. Lond., (1) : 1-15

General problems of osmoregulation with special reference to cyclostomes

Comparative review of Myxinoidea and Petromyzontidae; discussion of freshwater and sea-water osmoregulation in lampreys; evolutionary considerations.

- Zuckerman, S. (1960) MF
61-06523
Symp. zool. Soc. Lond., (1) : 15-6

General discussion of "General problems of osmoregulation with special reference to cyclostomes"

Re 61-06522. Participants: F. G. T. Holliday, R. Morris, P. M. J. Woodhead; refers to teleosts in comparison, specifically cod.

- Jones, I. C. & J. G. Phillips (1960) MF
61-06524
Symp. zool. Soc. Lond., (1) : 17-32
 Adrenocorticosteroids in fish

General review of occurrence and types, functions and site of production of corticosteroids in gnathostomatous fish, and consideration also of Agnatha. Brings together data for many spp., incl. *Oncorhynchus*, *Salmo*, *Cyprinus*, *Petromyzon*, *Gadus morhua*, *Catostomus*, *Raja*, *Scyliorhinus*, *Charcharinus*, *Protopterus*, *Fundulus*.

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- Baggerman, B. (1960)** MF
61-06525
Symp. zool. Soc. Lond., (1) : 33-58
Factors in the diadromous migrations of fish

Comprehensive review, under headings: physiological condition, endocrines—discussion of each gland; factors influencing endocrines “releasing” factors—daylength, temperature, light, weather, water flow, Special reference to *Salmo salar*, *Gasterosteus*, *Oncorhynchus*.

- Zuckerman, S. (1960)** MF
61-06526
Symp. zool. Soc. Lond., (1) : 59-60
General discussion of “Factors in the diadromous migrations of fish”

Re 61-06525. Participants: P. M. J. and Mrs. Woodhead and author; refers to *Gadus morhua*.

- D'Ancona, U. (1960)** MF
61-06527
Symp. zool. Soc. Lond., (1) : 61-74
The life cycle of the Atlantic eel

Ci 59-2477 and 59-6263. Review of biology of *Anguilla anguilla* and *A. rostrata* with special reference to hypothesis of D. W. Tucker.

- Zuckerman, S. (1960)** MF
61-06528
Symp. zool. Soc. Lond., (1) : 74-5
General discussion of “The life cycle of the Atlantic eel”

Re 61-06527, with additional references.

- Dodd, J. M., P. J. Evannett & C. K. Goddard (1960)** MF
61-06529
Symp. zool. Soc. Lond., (1) : 77-102
Reproductive endocrinology in cyclostomes and elasmobranchs

Review, for these two groups, under headings: gonads, secondary sexual characters, pituitary, pituitary and steroid hormones and reproduction.

- Jones, I. C. (1960)** MF
61-06530
Symp. zool. Soc. Lond., (1) : 102-3
General discussion of “Reproductive endocrinology in cyclostomes and elasmobranchs”

Re 61-06529; participation by Sage and J. M. Dodd.

- Ball, J. N. (1960)** MF
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Symp. zool. Soc. Lond., (1) : 105-34
Reproduction in female bony fishes

Review of functions of pituitary, adrenal, thyroid, and ovarian endocrines. Extensive bibliography.

- Jones, I. C. (1960)** MF
61-06532
Symp. zool. Soc. Lond., (1) : 135
General discussion of "Reproduction in female bony fishes"

Re 61-06531. Participant: Mrs. Woodhead.

- Marshall, A. J. (1960)** MF
61-06533
Symp. zool. Soc. Lond., (1) : 137-51
Reproduction in male bony fish

General review of subject: hypothalamic-pituitary axis; endocrine elements in testis; environmental control. Discusses also reproductive behaviour in fishes and birds.

- Amoroso, E. C. (1960)** MF
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Symp. zool. Soc. Lond., (1) : 153-81
Viviparity in fishes

General review of phenomenon, its evolution and significance; selachians, Poeciliidae, Anablepiidae, Goodeidae, Jenynsiidae, Blenniidae and Embi docidae, Scorpaenidae.

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61-06535
Symp. zool. Soc. Lond., (2) : 120 p.
Cyclical activity in endocrine systems

Co 61-06521. Contains editor's preface and 61-06536 to 61-06540.

- Matty, A. J. (1960)** MF
61-06536
Symp. zool. Soc. Lond., (2) : 1-15
Thyroid cycles in fish

A general review of this subject under main headings: evidence for cyclical activity; thyroid and reproduction; problem of thyroid function. Genera referred to incl. *Misgurnis*, *Clupea*, *Gadus*, *Phoxinus*, *Plecoglossus*, *Salmo*, *Fundulus*, *Lampetra*, *Lebistes*, *Myxine*, *Scarus*, *Sparisoma*, *Rutilus*, *Protopterus*, *Platythys*, *Oncorhynchus*, *Anguilla*, *Esox*, *Acipenser*, *Torpedo*, *Petromyzon*, *Xiphophorus* and *Scyliorhinus*.

- Swift, D. R. (1960)** MF
61-06537
Symp. zool. Soc. Lond., (2) : 17-27
Cyclical activity of the thyroid gland of fish in relation to environmental changes

Ci 61-06536. Methods of measuring thyroid activity; effects of solute concentration, light and temperature; annual cycle. Refers to *Gadus*, *Phoxinus*, *Fundulus*, *Salmo* and *Umbra*.

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- Barrington, E. J. W. (1960)**
Symp. zool. Soc. Lond., (2) : 69-85
 Some problems of adeno-hypophysial relationships in cyclostomes and fish
 Ci 61-06536 and 61-06537. General review: introduction; cyclostomes; teleosts. Refers to *Fundulus*, *Salmo*, *Lampetra*, *Asiyanax*, *Phoxinus*, *Protopterus*, *Hippocampus*, *Rhodeus*.
- M
61-06539
- Wells, M. J. (1960)**
Symp. zool. Soc. Lond., (2) : 87-107
 Optic glands and the ovary of *Octopus*
 Anatomy, evidence for hormonal control, by optic glands, of maturation; effects of their removal or enlargement by surgical treatment; normal and precocious maturation. Maturity of males. Reviews literature and presents original results.
- MF
61-06540
- Carlisle, D. B. (1960)**
Symp. zool. Soc. Lond., (2) : 109-20
 Moulting cycles in Crustacea
 Ci 59-6509. Classification of stages; endocrine control; modifications of cycle; comparison with vertebrates. Literature review. Refers to *Cancer*, *Homarus*, *Carcinus*, *Pandalus*, *Lyasmata*.
- MF
61-06541
- Training Centre on Fish Processing Technology, Quezon City, Philippines, 6 March-15 April 1961 (1961)**
 Rome, FAO, mimeo, 107 p.
 Laws and regulations concerning handling, processing, distribution, standards, quality control and inspection of fresh and frozen fish, canned fish and other processed fish products
 Compilation of material as per title from selected countries.
- MF
61-06542
- Borgstrom, G. & A. J. Heighway (Ed.) (1961)**
 London, Fish. News (Books) Ltd., 336 p.
 Atlantic Ocean fisheries
 Under four main sections contains papers on physical, biological, social and legal characters of the Atlantic; industrial developments by major nations fishing in this ocean; gives a review of USSR's effort in inland and marine fishing; lists scientific and English names of some 500 commercial fish. Incl. a glossary of terms and short summary of recommendations of Britain's recent committee of inquiry into her fishing industry. Contains 61-06543 to 61-06572.
- M
61-06543
- Carruthers, J. N. (1961)**
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 The Atlantic Ocean—North and south
 Semi-popular notes on size and depth of this ocean with remarks on bottom topography and related circulation; nature of the sea bed; surface currents; Gulf Stream; distribution of temperature and salinity. Incl. many tables and ill.

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61-06544
In 61-06542 : 18-39

Natural bases of fisheries in the Atlantic Ocean: their past and present characteristics and possibilities for future expansion

Contains a brief semi-popular review of the natural background of the fishery of the Atlantic Ocean, past and present, and its characteristics in different areas. The possibilities for future development of the fisheries are discussed.

Engholm, B. (1961) M
61-06545
In 61-06542 : 40-8

Fishery conservation in the Atlantic Ocean

Surveys the course of events to achieve maximum international cooperation in the commercial use of this ocean.

Winder, G. (1961) M
61-06546
In 61-06542 : 49-54

International territorial limits in relation to fishing

Reviews historical background of the territorial limits and presents a plain survey of growth of practice of observing these limits. Shows practical need for a common standard in the interest of international commerce and amity.

Hardy, A. C. (1961) M
61-06547
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Types of fishing ships working the Atlantic Ocean

Discusses trends in the evolution of new types of craft and fishing practices in order to secure bigger catches.

Burgess, J. (1961) M
61-06548
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Post-war trends towards improved fishing gear and equipment

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61-06549
In 61-06542 : 69-85
Norway's fishing industry

Section 2 : industrial development.

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<i>In</i> 61-06542 : 86-7
The fishing industry of Sweden

Section 2: industrial development. | M
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<i>In</i> 61-06542 : 88-96
Development and present state of Polish fisheries

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| Hass, P. G. (1961)
<i>In</i> 61-06542 : 97-105
The fishing industry of the Federal Republic of Germany

Section 2: industrial development. | M
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<i>In</i> 61-06542 : 106-18
Denmark's fishing industry: also Greenland and Farøe

Section 2: industrial development. | M
61-06553 |
| Anon. (1961)
<i>In</i> 61-06542 : 119-21
The fisheries of the Netherlands

Section 2: industrial development. | M
61-06554 |
| Cutting, C. L. (1961)
<i>In</i> 61-06542 : 122-37
The fishing industry of Great Britain: handling and marketing

Section 2: industrial development. | M
61-06555 |
| Lefevere, S. (1961)
<i>In</i> 61-06542 : 138-43
Fish processing in Belgium

Section 2: industrial development. | M
61-06556 |
| Remy, D. (1961)
<i>In</i> 61-06542 : 144-51
The fish industry of France

Section 2: industrial development. | M
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The fish industry of Spain

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| Houk, R. J. (1961)
<i>In</i> 61-06542 : 165-72
The Portuguese fishing industry

Section 2: industrial development. | M
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| Piegai, A. (1961)
<i>In</i> 61-06542 : 173-8
The development of the fisheries industry in Italy

Section 2: industrial development. | M
61-06560 |
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<i>In</i> 61-06542 : 179-81
Fishing enterprise on Africa's N.W. coast: Angola and Morocco

Section 2: industrial development. | M
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<i>In</i> 61-06542 : 182-91
The development of the South African fish industry

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| Hart, T. J. (1961)
<i>In</i> 61-06542 : 192-5
Fishery prospects on the Patagonian continental shelf

Section 2: industrial development. | M
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<i>In</i> 61-06542 : 196-204
The sea fishing industry of the Argentine Republic

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 Section 2: industrial development.
- Borgstrom, G.** (1961) M
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 U.S. Atlantic fisheries and current trends in supply and use
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- Report on FAO project carried out under UN Expanded Technical Assistance Programme. Describes present situation of the fisheries, and considers increase of fisheries and fishculture production, organization of inland fisheries, fish culture centre and training.
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- Report on FAO project carried out under UN Expanded Technical Assistance Programme. Advises the government in biological aspects of culture, particularly in questions concerned with collection of oyster spat, laying, adult mortality and cultivation of *Gryphae angulata*; gives recommendations on matters of management of oyster beds. Recommendations for further action.
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- A note on homologation of visceral ganglia in Pulmonata.
- International Meeting on Scientific Research into Water Pollution—** F
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- Discusses properties; structures and uses of extracts from *Hypnea*, *Eucheuma*, *Furcellaria*, *Gracillaria*, *Porphyra*, *Cloiopeletis*, *Rhodymenia* and *Iridea*.

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CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-353me to 61-365me

- | | |
|---|----------------|
| WHO. 12/6/62
Brazzaville, Africa. 6 days
2nd Conference on onchocerciasis | F
61-353me |
| World Conference on National Parks. 30/6/62
Seattle, Wash., U.S.A. 8 days
1st Conference | MF
61-354me |
| International Conference on Radiocarbon Dating. 23/7/62
Cambridge, U.K. 6 days
5th Meeting | G
61-355me |
| ICC. 30/1/62
Paris, France. 4 days
1st General assembly | G
61-356me |
| INPFC. Aug./62
Tokyo, Japan
Special interim meeting | MF
61-357me |
| European Association for Animal Production. 1/9/62
Baden bei Wien, Austria. 7 days
General meeting | G
61-358me |
| EEC. 22/10/62
Brussels, Belgium. 1 day
Fisheries conference | MF
61-359me |
| CCTA. Oct./62
London, U.K.
7th Meeting of the Inter-African Phytosanitary Commission | F
61-360me |
| FAO. 8/10/62
Rome, Italy. 6 days
2nd Regional conference for Europe | G
61-361me |

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

**Challenger Society/Representatives from Marine
Laboratories.** 25/10/62
Burnham-on-Crouch, Essex, U.K. 2 days
Meeting

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61-362me

Following papers will be presented: G. D. Wauch, "Biological and practical problems of oyster cultivation"; R. W. Butcher, "Methods of investigating marine μ flagellates"; A. Wheeler, "On the ecology of some Thames estuary fishes"; D. A. Hancock, "Starfish and mussels"; E. Edwards, "Biology and behaviour of the edible crab"; P. C. Wood, "Lobster storage and the bacterial disease Gaffkaemia"; E. Naylor, "Tidal and seasonal migrations of the shore crab *Carcinus moenas* L."; H. O. Bull, "The lobster"; A. C. Simpson, "Oil pollution and shellfish"; C. S. Davis, "The bottom fauna of the Blackwater estuary"; D. Key, "Shore ecology off Bradwell"; J. Rippon, "The use of bacterial tracers to follow water movements"; G. Parr, "The hydrography of the Blackwater estuary".

FAO. 17/11/62
Rio de Janeiro, Brazil. 11 days
7th Regional conference for Latin America

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	01159	Bernard, F. (1960)	00961
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AAAS, Pacific Division (1961)	044me	Atomic Energy Commission/AIBS (1961)	092me
ACC (1961)	020me	Botanical Society of the British Isles (1962)	247me
ACC (1962)	144me	British Association for the Advancement of Science (1961)	084me
AIBS (1961)	034me 089me	British Ecological Society (1962)	324me
AIBS/ASLO (1962)	230me		
AIBS, Shark Research Panel (1961)	090me		
ASAB (1961)	046me		
ASAB (1962)	289me 311me		
ASLO (1961)	076me		
ASLO/AIBS (1962)	334me		
ASLO, Pacific Section (1961)	126me		

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CAB, Animal Nutrition (1961)	093me	EIFAC (1962)	083me
CCTA (1962)	182me 360me	Eastern Pacific Oceanic Conference (1962)	300me
CCTA/CSA (1962)	219me	European Association for Animal Production (1962)	358me
CCTA/IUCN (1961)	047me	European Federation of Chemical Engineering (1962)	167me 258me
CCTA/IUCN (1962)	183me	European Society of Haematology (1961)	075me
CIBA Foundation (1962)	180me		
CIESMM (1962)	305me	FAO (1959)	078me
CPCERMPs (1961)	094me	FAO (1961)	003me 030me 049me
Canada, Ministry of Agriculture (1961)	081me		050me to 052me
Canadian Federation of Biological Societies (1961)	095me		097me to 100me
Canadian Institute of Food Technology (1961)	021me	FAO (1962)	253me 327me 228me
Caribbean Council (1961)	125me		140me 290me 330me
Central Treaty Organization, Scientific Council (1962)	274me		244me 229me 263me
Centre National de la Recherche Scientifique (1961)	096me		232me 340me 301me
Challenger Society (1961)	006me		315me 361me 346me
	161me		318me 307me 308me
Challenger Society (1962)	215me		350me 349me 363me
	328me		364me
Challenger Society/Representatives from Marine Laboratories (1962)	216me 284me 362me	FAO (1963)	352me 238me
Chamber of Commerce of Ancona (1961)	048me	FAO/ECLA (1962)	291me
Comitato Nazionale per l'Energia Nucleare (Italia) (1961)	011me	FAO/ICES/ICNAF (1962)	297me
Committee of International Congresses on Metallic Corrosion (1961)	086me	FAO/WHO (1961)	187me
Conference of European Comparative Endocrinologists (1962)	295me	FAO/WHO (1962)	316me
Conferences on Science & World Affairs (1961)	201me	FAO/WHO/IAEA (1961)	053me
Consejo Superior de Investigaciones Científicas Sección de Petrografía Sedimentaria (1961)	242me	FAO/WHO/IAEA (1962)	337me
		FBA (UK) (1961)	101me
Delft. Technological University/Netherlands Universities Foundation for International Cooperation/WHO/OECD (1962-1963)	344me	FBA (UK) (1962)	139me 312me
Department of Marine Science of College of William & Mary/Virginia Fisheries Laboratory (1961)	012me	FID (1962)	339me
		Fisheries Council of Canada (1961)	005me
ECAFE (1961)	033me 159me	Fisheries Council of Canada (1962)	191me
ECE (1961)	022me 023me		
EEC (1962)	359me	GCFI (1961)	131me
		GCFI (1962)	236me 348me
		GFCM (1961)	128me
		GLFC (1961)	186me
		GLFC (1962)	226me
		GLFC, Research Division (1962)	220me
		Geological Society of America <i>et al.</i> (1961)	248me
		Germany. Federal Republic. Bundesministerium für Ernährung, Landwirtschaft & Forsten (1962)	246me
		Ghana Science Association (1962)	082me
		Great Lakes Research Division (1961)	054me
		Gulf States Marine Fisheries Commission (1961)	055me

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Gulf States Marine Fisheries Commission (1962)	164me	317me	
Hungarian Academy of Sciences/ Hungarian Society of Hydrology (1961)		056me	
IAEA (1961)	004me	102me	057me
	210me		
IAEA (1962)	243me	287me	298me
	235me	351me	
IAEA/FAO/WHO (1961)		158me	
IAEA/Joint Commission on Applied Radioactivity (1961)		322me	
IAL (1962)		138me	267me
I-ATTC (1962)		282me	171me
ICC (1962)			356me
ICES (1962)	233me	254me	266me
	168me		
ICNAF (1961)		058me	
ICNAF (1962)	170me	192me	145me
ICNAF, Standing Committee on Research & Statistics (1962)		146me	
ICSU (1961)		059me	
ICSU (1962)		325me	343me
ICSU/SCOR (1961)		103me	104me
IFIPS (1962)			172me
IHB (1962)		151me	256me
IMCO (1961)			178me
IMCO (1962)	212me	217me	251me
	147me	326me	162me
	320me		
INPFC (1961)		073me	127me
INPFC (1962)	252me	357me	306me
	269me		
INPFC, Committee on Biology & Research (1961)		173me	
INPFC, U.S. Section (1961)		015me	
IOF (1961)		105me	
IPFC (1962)	184me	341me	345me
IPFC, Executive Committee (1961)		106me	
IPHC (1962)		190me	
ISA (1962)		342me	
ISO/TC 38, Sub-Committee on Fishing Nets (1962)		283me	
IUBS (1961)		060me	
IUCN (1961)		077me	
IUCN (1962)		196me	
IUGG (1962)		264me	
IUGG (1963)		240me	
IWC (1961)		061me	
IWC (1962)		169me	
Institute of Biology (U.K.) (1961)		032me	
Institute of Economics (1962)		347me	
Institute of Marine Engineers (1962)		255me	
Institute of Mathematical Statistics (1961)		272me	
Institute of Navigation (U.K.) (1961)		107me	
Instrument Society of America (1960)		205me	
Intergovernmental Oceanographic Commission (1962)		294me	
International Agricultural Center (1961)		195me	
International Association of Game, Fish & Conservation Commissioners (1962)		148me	
International Association of Microbiological Societies (1962)		181me	
International Conference on Water Pollution Research (1962)		231me	
International Conference on Radiocarbon Dating (1962)		355me	
International Congress of Food Science & Technology (1962)		149me	
International Congress on the History of Science (1962)		150me	
International Congress of Physiological Sciences (1962)		313me	
International Congress of Zoology (1963)		239me	
International Federation of National Societies of Parasitologists (provisional) (1962)		259me	
International Fisheries Fair (1962)		222me	
International Fisheries Show (1962)		285me	
International Institute of Refrigeration (1961)		024me	
International Joint Commission U.S.-Canada (1961)		062me	
International Phycological Society (1961)		108me	
International Phycological Society (1962)		333me	
International Rayon & Synthetic Fibres Committee (1962)		165me	
International Ship Structural Congress (1961)		160me	
International Union of Biochemistry (1961)		067me	
International Union for Social Service (1961)		063me	

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Kansas. State University (1962)	265me	
Karolinska Institutet (1961)	025me	
Lalor Foundation (1962)	143me	
Malaya & Singapore, Fisheries Department (1960)	043me	
Marine Biological Association of India (1961)	069me	
Marine Biological Association of India (1962)	213me	
Marine Biological Association of U.K. (1962)	141me	142me
Marine Biological Laboratory, Woods Hole (1961)	109me	
NAS/NRC (US) (1961)	029me	064me
NATO (1962)		278me
NATO Advanced Study Institutes Programme (1961)	110me	
NPFSC (1962)	189me	214me 175me
	310me	309me
National Academy of Sciences (1961)		204me
National Academy of Sciences/NRC (1961)		197me
National Fisheries Institute (1962)		152me
National Fisheries Institute (1963)		237me
National Fisheries Institute, Area III (1961)		134me
National Science Foundation/Office of Naval Research (1961)	070me	071me 072me
National Shrimp Congress (1961)		135me
Netherlands Universities Foundation for International Cooperation, Technological University of Delft/OEEC/WHO (1961-1962)		013me
N.Y. Academy of Sciences (1961)		079me
Northwest Pacific Fisheries Commission (Japan-USSR) (1962)		277me
OEEC (1961)		008me
OEEC/EPA (1962)		179me
Oak Ridge Institute of Nuclear Studies (1961)		111me
Oceanographic Institute, Florida University (1961)	208me	209me
Oceanographic Society of Japan (1961)	112me	113me
Office International des Epizooties (O.I.E.), Commission permanente de l'O.I.E. pour l'Étude des Maladies des Poissons (1962)		303me
Office of Naval Research (1961)		080me
Office of Naval Research/Information Systems Branch/Armour Research Foundation (1962)		225me
Office of Naval Research/Netherlands Ship Model Basin (1960)		207me
Operations Research Society of America (1961)		114me
Operations Research Society of America (1962)	153me	268me
Oyster Growers & Dealers/National Shellfisheries (1962)		193me
PCIFC (1962)		224me
Pacific Fisheries Technologists (1961)		016me
Pacific Marine Fisheries Commission (1962)		302me
Pacific Tuna Conference (1961)		009me
		019me
Pacific Tuna Conference (1962)		299me
Paraguay, Ministerio de Agricultura y Ganadería (1961)		115me
Phycological Society of America (1960)		085me
Royal Meteorological Society/Challenger Society (1962)		336me
Royal Society of London (1962)		166me
SCAR/ICSU (1962)		293me
SCOR (1962)		223me
SCOR/ICSU (1962)	323me	338me
SCOR/ICSU/IOC (1962)		329me
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SPC (1962)	273me	234me 319me
Scottish Field Studies Association (1961)	037me	to 039me
Scottish Marine Biological Association (1962)	136me	137me
Scripps Institution of Oceanography (1961)		065me
Shrimp Association of the Americas (1961)	031me	132me
Shrimp Association of the Americas (1962)		227me
Society of European Nematologists (1961)		203me

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Society of Naval Architects & Marine Engineers (1961)	249me		
South American Congress of Zoology (1962)	261me		
Southeastern Fisheries Association (1961)	133me		
Stazione Zoologica di Napoli (1961)	163me		
Sweden (1961)	074me		
Sweden. Fisheries Division (1961)	116me		
Symposium on the Physiology & Ultra Structure of <i>Hydra</i> & of Some Coelenterates (1961)	241me		
Systematics Association/Challenger Society (1961)	154me		
Thunderbird Enterprises Ltd. (1961)	117me		
UN (1961)	040me	177me	001me
UNESCO (1961)	198me	245me	
	010me	118me	119me
	124me	123me	200me
UNESCO (1962)	221me		
UNESCO, International Advisory Committee on Bibliography, Documentation & Terminology (1961)	120me		
UNESCO, Science Cooperation Office for Southeast Asia (1962)	218me	321me	
UNESCO/WMO (1961)	066me		
USFWS, Bureau of Commercial Fisheries (1962)	365me		
USPHS (1962)	156me		
USPHS, Taft Sanitary Engineering Center (1961)	007me	068me	
U.S. Department of the Interior (1961)	129me		
U.S. Office of Naval Research (1962)	335me		
University of British Columbia, Department of University Extension (1962)	194me		
University of North Carolina (1961)	041me		
University of Padua, Italy (1961)	130me		
University of Rochester (1961)	155me		
WHO (1961)	353me		
WHO/OEED/Association Française pour l'Étude des Eaux/Abwassertechnische Vereinigung (GFR)/Foreningen for Vattenhygien (Sweden)/Water Pollution Control Federation (USA)/Institute of Sewage Purification/Institution of Public Health Engineers/River Board Association/Scottish River Purification Board Association (UK) (1962)	157me		
WMO (1961)	036me	042me	
WMO (1962)	275me	174me	
WMO. Commission for Synoptic Meteorology (1962)	250me		
Washington. State University (1962)	260me		
Water Pollution Control Federation (1961)	176me		
Water Pollution Control Federation (1962)	262me		
West Pacific Fisheries Commission (1962)	292me		
Wildlife Disease Association, U.S. (1962)	288me		
World Conference on National Parks (1962)	354me		
Zoological Society of India (1962)	314me		
Zoological Society of London (1961)	121me		
Zoological Society of London/ASAB (1961)	122me		
Sponsor unknown (1961)	028me	027me	
SECOND AND THIRD AUTHORS			
Aaronson, S. (1958)	03862		
Abe, N. (1960)	01870		
Abe, T. (1959)	00549	02374	
Abramov, A. (1960)	00447		
Abyzov, S. S. (1960)	06143		
Acher, R. (1961)	06385		
Acosta, J. T. (1960)	03555		
Adrian, B. (1969)	04515		
Ahlers, W. (1960)	06641	06642	
Ahmad, M. (1958)	04420		
Ahmad, M. (n.d.)	05654		
Aikawa, H. (1959)	00565		
Aikawa, H. (1960)	00166		
Akamatsu, H. (1959)	01111		
Akano, T. (1960)	06842		

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Akiba, M. (1959)	01447	Barron, N. (1960)	00986
Akiba, M. (1960)	01454	Barrymore, S. (1960)	06131
Akiba, Y. (1959)	00569	Barrymore, S. D. (1960)	06132
Aleksandriuk, S. P. (1960)	05433	Bas, C. (1959)	04748
	05434	Baylor, E. R. (1960)	00970
Alemaný, M. (1960)	03555	Beck, R. A. (1959)	02933
Aleskovskii, V. B. (1958)	03168	Beeler, R. (1960)	00783
Alfred, E. R. (1958)	05731	Behrens, M. (1960)	02165
Allen, D. M. (1960)	06261	Bein, S. J. (n.d. 1959?)	03977
Allen, K. (1959)	02964	Bell, C. G. (1959)	02009
Allen, R. D. (1959)	02978	Belsare, D. K. (1959)	00629
Allison, E. C. (1960)	01229	Belyanina, T. N. (1960)	05101
Amano, K. (1958)	00357	Bender, M. (1959)	03923
Amidjaja, R. (1960)	00143	Bennett, M. F. (1959)	02995
Amiot, L. W. (1960)	01700	Ben-Tuvia, A. (1960)	03224
Ando, K. (1960)	04725	Ben-Yami, M. (1960)	02884
Antal, P. (1959)	03172	Bergmann, F. (1959)	03012
Aoto, T. (1960)	03561	Berkeley, C. (1960)	00833
Applegate, V. C. (1960)	01994	Berman, W. H. (1960)	06589
Apte, A. S. (1958)	04126	Bern, H. A. (1960)	01331
Arfin, S. M. (1960)	06680	Berner, L., Jr. (1959)	02382
Arias, E. (1959)	04747	Bernhard, M. (1960)	06596
Aron, W. (1958)	02265	Best, E. A. (1960)	06691
Aron, W. (1960)	06695	Beyers, R. J. (1960)	01629
Arons, A. B. (1960)	02398 05922	Bialecki, A. (1960)	04996
Arseniev, V. S. (1959)	04524	Bichiceanu, M. (1959)	00395
Asaoka, O. (1960)	01921	Biczók, F. (1959)	06200
Austin, A. P. (1960)	02638	Bierschenk, W. H. (1960)	06617
Austin, K. H. (1960)	06314	Bircă, I. (1959)	00763
Awapara, J. (1959)	02964	Birkhoff, C. (1960)	01049 01344
Awapara, J. (1960)	05603	Birstein, J. A. (1960)	04339
Ax, R. (1960)	01663	Bischoff, A. I. (1960)	03986
Ayers, J. C. (1959)	06150	Bitners, I. (1960)	01098
Ayers, J. C. (1960)	00581	Bjuke, C. R. (1960)	02283
		Blaxter, J. H. S. (1960)	00992 04920
Bachmann, R. W. (1959)	03008	Blaxter, J. H. S. (1961)	03859
Backiel, T. (1960)	02031	Blum, W. P. (1959)	01094
Backus, R. H. (1960)	04421	Boalch, D. H. (1960)	04293
Bader, R. G. (1960)	06278	Böhlke, J. E. (1960)	06705
Badgley, F. I. (1958)	06488	Boichev, D. (1960)	03458
Bailey, J. E. (1960)	06435	Bookhout, C. G. (1960)	01627 05604
Bakhtina, M. E. (1959)	04176		05605
Bakkala, R. G. (1960)	06177	Bookhout, C. G. (1961)	03801
Băleanu, N. (1960)	05954	Booolootian, R. A. (1960)	04074
Balica, B. R. (1960)	05079	Booth, R. A. (1960)	06697
Bang, F. B. (1960)	05610	Borgese, T. A. (1959)	02977
Banks, R. B. (1959)	02009	Borgeson, D. P. (1960)	02204
Banner, A. H. (1960)	05293	Boschi, E. E. (1959)	01250
Banner, D. M. (1960)	01459 01460	Bourgeois, F. (1960)	00444
Baravik, E. A. (1959)	04200	Bowen, V. T. (1959)	05345
Barber, F. G. (1960)	06070	Bowerman, F. R. (1960)	00208
Bardach, J. E. (1960)	01268	Bowler, E. (1960)	03318
Barnes, M. (1959)	06238	Brancato, F. P. (1959)	04902
Barnoud, R. (1959)	01682 05203	Brandon, A. M. (1959)	01682
Barquist, R. F. (1958)	06502	Brater, E. F. (1959)	05164
Barrett, M. J. (1958)	04499	Brattstrom (1960)	06698

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Bravo-Hollis, M. (1959)	05988	Childers, W. F. (1959)	02135
Brawn, V. M. (1960)	06647	Chivers, D. D. (1960)	01707
Brehmer, M. L. (1960)	01625	Chonaire, E. N. (n.d. 1959?)	02485
Brett, W. J. (1959)	02995 02996	Chowdhury, D. R. (1959)	04393
Brett, W. J. (1960)	06125	Christmas, J. Y., Jr. (1960)	03272
Brinck, P. (1959)	01781	Chung-Yen, T. (1960)	02608
Brock, V. E. (1960)	03345	Churchill, D. M. (1959)	02418
Brody, A. L. (1960)	06662	Chyu, I. (1959)	03446
Brohm, H. H. (1960)	05558	Ciszewski, P. (1959)	01407
Brooks, C. E. P. (1960)	01221 01295	Claff, C. L. (1959)	03020
Brooks, N. H. (1960)	00208	Clark, M. E. (1960)	03158
Brown, F. A., Jr. (1959)	02990 02991	Clark, R. B. (1959)	01014
	02993	Clark, R. B. (1960)	03157 06366
Brown, J. S. (1960)	02773	Cleverdon, R. C. (1960)	00580
Brown, W. D. (1959)	04550	Clunies-Ross, C. W. (1960)	01455
Brown, W. W. (1961)	04681	Cobb, M. C. (1958)	02018
Brucker, W. (1960)	03563	Cole, C. V. (1958)	04126
Buckley, J. (1960)	02786	Collette, B. B. (1959)	03908
Budinger, T. F. (1958)	06492	Collias, E. E. (1958)	06481
Budker, P. (1958)	03361	Collins, H. H. (1960)	03602
Bullis, H. R. Jr. (1960)	02127	Collins, J. (1960)	05056
Bunim, L. (1959)	02988	Collins, R. A. (1958)	03273
Burling, R. W. (1960)	06767	Collins, R. A. (1959)	05306
Burnett, J. H. (n.d. 1959?)	02448	Collins, R. A. (1960)	03272
Butler, E. I. (1960)	00987	Colwin, L. H. (1957)	00507
Butler, R. L. (1959)	02875 03092	Conrad, J. F. (1960)	01762
Byers, T. F. (1959)	02981	Conrad, S. M. (1960)	00257
Cabrera, D. (1960)	03454	Cooper, A. C. (1960)	05568
Cairns, E. J. (1959)	05301	Cooper, E. L. (1960)	06426
Calventi, I. (1959)	04331	Coote, G. G. (1960)	01070
Calvez, D. L. (1960)	00112	Corner, E. D. S. (1960)	03825
Cambiano, A. (1960)	01390	Correia da Costa, F. (1959)	00706
Cameron, T. W. M. (1960)	00217	Corwin, N. (1958)	06498
Campbell, D. A. (1958)	02021	Costlow, J. D., Jr. (1961)	03861
Campbell, J. A. (1960)	01087	Cousineau, G. (1959)	03003
Cantlon, J. E. (1960)	00977	Covelli, I. (1961)	04022
Căpușe, I. (1959)	03091	Covindan, T. K. (1960)	05057
Carré, C. (1960)	01167	Cowell, N. D. (1960)	05075
Casati, C. (1959)	05280	Cox, G. M. (1957)	00796
Cassie, V. (1960)	06239	Creelman, V. M. (1960)	06317
Cauro, R. (1958)	05232	Crisp, D. J. (1958)	02599
Červenková, E. (1959)	00890	Crisp, D. J. (1960)	00999
Chaet, A. B. (1959)	02989	Cristea, A. (1959)	05524
Chalazonitis, N. (1959)	03047	Cristea, A. (1960)	05954 05955
Chalazonitis, N. (1960)	02624	Cristian, A. (1958)	00405
Chalupa, J. (1959)	00888	Cronin, L. E. (1959)	02113
Chamberlain, E. B. (1959)	02933	Crossen, J. M. (1959)	02198
Chandler, T. R. D. (1958)	01542	Cummings, R. H. (1961)	05321
Chang, N. H. (1959)	06858	Cure, V. (1959)	06213
Chapman, D. G. (n.d. 1960?)	01526	Cushing, J. E. (1959)	01149
Chauvet-Lenci, M.-T. (1961)	06385	Cutting, C. L. (1960)	06202
Cheney, R. H. (1959)	03017	Cyrus, C. C. (1960)	05597
Chen-yin, W. (1960)	02610	Dănilă, A. (1959)	05523
Chi, L. W. (1959)	01273	Darbyshire, M. (1959)	03780
Chigusa, S. (1960)	01356	Datsko, V. G. (1959)	04225

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d'Aubenton, F. (1960)	06454	El Sayed, S. Z. (1959)	04554
David, F. N. (1960)	03197	Elwertowski, J. (1959)	01419
Dawson, E. Y. (1960)	00204	Emi, K. (1960)	00144
Day, A. S. (1960)	00207	Engelbrecht, R. S. (1960)	03185
Day, L. R. (1960)	03278	Ensign, A. (1960)	03084
De, H. N. (1959)	06763	Epshtein, V. M. (1960)	02652
Deacon, J. E. (1959)	02145 06857	Erman, F. (1960)	00453
Deardoff, J. W. (1958)	06488	Evennett, P. J. (1960)	06529
Debnam, J. W., Jr. (1960)	05290	Ewing, M. (1960)	01954
Debnath, J. C. (1959)	06763		
Decker, A. H. (1960)	05192		
Deckert, K. (1959)	03632	Falconer, I. R. (1960)	02859
Degrange, C. (1960)	01997 02001	Farber, L. (1960)	01083
Delalo, E. P. (1960)	06353	Fedorov, K. N. (1960)	06609
della Valle, R. (1959)	00856	Fiala, L. (1959)	00892
Demcenko, I. F. (1959)	05518	Fieger, E. A. (1960)	06689
Demir, N. (1960)	00433 00435	Fields, P. E. (1959)	04552 04553
Densmore, D. (1959)	03497	Filatova, Z. A. (1960)	02320
Desrosières, R. (1959)	01170	Fine, A. (1959)	04897 06056
de Stefano, M. (1960)	01962	Fingerman, M. (1959)	03015
Deuse, R. (1960)	03154	Fischer-Piette, E., (1959)	03633
Dey, A. K. (1959)	04397	Fiscus, C. H. Jr. (1960)	03215
Dey, L. M. (1959)	03396	Fisher, F. M. Jr. (1959)	02986
Dhabanandana, S. (1960)	03170	Flick, W. (1960)	01756
Dickeson, C. W. (1960)	01762	Flood, D. T. (n.d. 1959?)	02488
Dickson, J. H. (1959)	00785	Florey, E. (1958)	06508
Dimovic, D. (1960)	05227	Florkin, M. (1959)	01200
Dmitriev, A. N. (1959)	04164	Folsom, T. R. (1960)	02400
Dobrynina, T. A. (1959)	04176	Fontaine, M. (1959)	05289
Dodge, B. F. (1959)	05324	Fontaine, M. (1960)	01686
Dodimead, A. J. (1960)	06068	Fontaine, Y. A. (1959)	03039
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Dowell, V. E. (1959)	01694	Fox, K. A. (1959)	00797
Downing, A. L. (1960)	04922	Fox, S. (1959)	01327
Dragesund, O. (1959)	03416	Frade, F. (1960)	04080
Drake, C. L. (1960)	04826	Franca, P. (1960)	03434
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Duncan, D. W. (1960)	06315	Freiberger, A. (1960)	06644
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Duo, A. (1960)	00429	Fridthjof, J. (1960)	02657
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Egg Research Group (1960)	06781	Fujino, K. (1959)	01148
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(1959)	04342	Funae, K. (1960)	01464
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Gasteva, S. V. (1959)	02216	Gupta, P. D. (1960)	06310
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Gillard, J. (1959)	05152	Hamada, S. (1959)	01108 01117
Giovando, L. F. (1960)	01621	Hamatani, I. (1959)	02375
Given, R. R. (1960)	01248	Hamon, B. V. (1960)	02399
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Govaert-Mallebrancque, D. (1958)	03362	Haxo, F. T. (1960)	06371
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<i>Pterophyllum</i>			01598		<i>Lycenchelys</i>		03692
<i>Puntazzo</i>			02584		<i>Lycodonus</i>		03692
<i>Roccus</i>	00227	00470	00770	00897	<i>Parablenius</i>		03349
	01980	01985	01988	01989	<i>SCHINDLERIIDAE</i>		03244
	01991	02141	03376	03493	<i>Taranetzella</i>		03692
	03842	03844	06279	06388	<i>Zoarcaeus</i>	02637	06297
	06391				1,72 <i>Ammodytes</i>	02762	05407
<i>Scarus</i>	01268	01330	06536		<i>BROTULIDAE</i>		03244
<i>SCIAENIDAE</i>		03442	04696		<i>FIERASFERIDAE</i>		03244
<i>Scorpiis</i>			03377		<i>Lepophidium</i>		02124
<i>Selaroides</i>			02666		<i>OPHIDIIDAE</i>		05376
<i>Seriola</i>	00076	01586	01689	05931	<i>Ophidion</i>		06508
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<i>Serranus</i>		03776	06406		1,74 <i>Acanthurus</i>		01457
<i>Sillago</i>			02129		<i>Aphanopus</i>	03809	04544
<i>Smaris</i>			05433		<i>Leionura</i>	04028	04031
<i>SPARIDAE</i>			03430		<i>Lepidopus</i>	00779	00854
<i>Sparisoma</i>		01268	06536		<i>Parapriacanthus</i>		02372
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<i>Stizostedion</i>	02711	05556	06425		<i>Thyrstips</i>		02262
	06460				1,75 <i>Istiophorus</i>	01830	06707
<i>Suttonia</i>			03752		<i>Makaira</i>	01176	to 01179
<i>Terapon</i>			06370			01854	03496
<i>Tilapia</i>	00059	00290	00864	01010		03591	05451
	01331	01540	01748	01814		05762	05766
	01979	02027	02063	02071		06707	06860
	02235	02237	to	02241	<i>Pneumatophorus diego</i>		06180
	02244	02246	02573	02634	<i>Pneumatophorus japonicus</i>		04727
	02706	02880	03241	03270			05935
	03325	03469	03477	03705	<i>Pneumatophorus sp.</i>	01909	02286
	04016	04287	04289	04545	<i>Rastrelliger</i>	03776	03812
	05591	05746	05748	06296	<i>Sarda</i>		00433
	06297	06404	06715	06741	<i>Scomber, gen.</i>		04474
<i>Toxotes</i>			03377		<i>Scomber colias</i>		02701
<i>Trachinotus</i>			01302		<i>Scomber scombrus</i>	00415	02227
<i>Trachinus</i>			01021			02701	02762
<i>Trachurus</i>	00070	00401	01869			02819	02977
	02286	02325	03057	03400		05870	05879
	04213	04727	06046	06305	<i>Scomber sp.</i>		01586
<i>Trematomus</i>			00965		<i>Scomberomorus commerson</i>		03776
<i>TRICHONOTIDAE</i>			03244		<i>Scomberomorus sp.</i>		03226
<i>Tristramella</i>	02063	03224	03469		<i>SCOMBRIDAE</i>	01342	02404
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<i>Tylochromis</i>			05746				213me
<i>Upeneus</i>			00414		<i>Tetrapturus</i>	01176	01830
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					<i>Palinurichthys</i>		02555
					<i>Palometa</i>		06704
					<i>Poronotus</i>		06321
					<i>STROMATEIDAE</i>		03244

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	<i>Garmannia</i>		05773		04080	04690	04842	05451
	<i>Glossogobius</i>		05468		06407			
	GOBIIDAE	02287	04147		<i>Parathunnus</i>	00047	00061	00063
	<i>Gobius</i>	03225	05433	06326		00064	00066	00067
	<i>Lythrypnus</i>			05773		02895	03248	03985
	<i>Odontobutis</i>	00148	00149			04083	05451	04080
	<i>Periophthalmus</i>		06400		THUNNIFORMES		00352	00409
	<i>Quisquilius</i>		05773			00410	00450	00451
1,78	<i>Agonus</i>		05706			01815	01816	01855
	<i>Alertichthys</i>		04973			02706	03048	03145
	<i>Anoplopoma</i>		01331			03813	03911	04077
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	<i>Clinocottus</i>		01623			04926	05052	05142
	<i>Cottus</i>	02024	04706	06219		05423	06095	06176
	CYCLOPTERIDAE		03221			06738	06786	009me
	<i>Helicolenus</i>		05407			019me	140me	171me
	<i>Lepidotriglia</i>	02128	02129	02373		228me	282me	299me
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	<i>Liparis</i>		02132	05379	<i>Thunnus orientalis</i>		00042	00065
	<i>Myoxocephalus</i>			02022	<i>Thunnus thynnus</i>		00063	00312
	<i>Oligocottus</i>	01623	05172			00423	00450	00451
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	<i>Pallasina</i>		05706			04083	06275	06707
	<i>Platycephalus</i>		00070			06761		
	<i>Pleurogrammus</i>	01441	02334		<i>Thunnus sp.</i>	02071	02089	02093
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	<i>Sebastes</i>	01162	01163	01580		02339	02661	05158
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	<i>Sebastichthys</i>		02372			<i>Cynoglossus</i>		03234
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	<i>Sebastodes</i>	02070	02286	02372		<i>Glyptocephalus</i>	05408	06691
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	<i>Stellerina</i>		05706			<i>Hippoglossus hippoglossus</i>		00829
	<i>Synanceja</i>	05189	05212	05276			00933	01827
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1,79	<i>Cephalacanthus</i>		05407		<i>Hippoglossus stenolepis</i>			00494
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1,80	<i>Auxis</i>	00722	01533	04082		190me		
	<i>Euthynnus</i>	00434	02895	04084	<i>Hippoglossus sp.</i>			02556
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186me	188me		191me	05165	05233	05235	05288
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211me	220me		222me	05483	05562	05569	05572
226me	234me		238me	05575	05577	05578	05580
246me	257me		315me	05581	05582	05614	05670
316me	317me		348me	05692	05702	05774	05904
357me				05906	05912	05946	05956
				05957	05962	05967	05977
				05984	06119	06167	to
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				06281	06319	06345	06353
				06401	06438	06465	06497
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				06769	06805	06817	06854
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				037me	038me		039me
				103me	124me		163me
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00440	00442	00522	00534
00543	00544	00545	00564
00576	00589	00626	00693
00698	00714	00761	00782
00788	00836	00855	00856
00858	00977	00980	01014
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	<i>Caenestheriella</i>				00734	<i>Lamippina</i>			03806
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	<i>Pisidium</i>	00186	00189	04946		<i>Tremoctopus</i>		02640
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	<i>Peyssonnelia</i>			01271		01495	01501	01699	01845
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04807	04908	04910	04997		02397	02554 02606 02665
04999	05004	05138	05164		02684	02795 03042 03222
05167	05196	05197	05227		03571	03573 03737 03745
05229	05232	05237	05253		03792	03807 03856 03857
05295	05296	05298	05299		03858	03861 03879 03880
05300	05313	to	05316		03903	04165 04190 04208
05326	05330	05331	05337		04211	04215 04399 04542
05460	05498	05524	05549		04681	to 04684 04744
05589	05612	05670	05672		04757	04758 04841 04860
05677	05679	05682	05685		04959	04960 05129 05130
05704	05744	05746	05747		05131	05241 05242 05288
05970	06015	06017	06018		05369	05370 05431 05477
06116	06119	06150	06187		05480	05483 05530 05559
06200	06210	06211	06216		05595	05674 05676 05909
06221	06223	06227	06233		05934	05957 to 05960
06234	06237	06311	06314		06009	06041 06200 06240
06318	06339	06357	06441		06348	06353 06503 06735
to	06445	06458	06464		260me	284me
06492	06498	06505	06509	3.3 <i>Phytoplankton</i>	00018	00030 00103
06517	06518	06729	06731		00262	00270 00579 00626
06732	06737	06855	06856		00698	00803 00961 00967
219me	362me				00980	01104 01207 01209
					01306	01307 01431 01622
					01723	01724 01725 01741
					02023	02151 02161 02206
					02301	02408 02442 02443
					02549	02970 03078 03136
					03331	03510 03560 03749
					03975	04188 04189 04206
					04207	04212 04277 04282
					04406	04575 04680 04747
					04765	04766 04768 04769
					04860	05007 05227 05288
					05335	05354 05358 06034
					06042	06163 06465 06480
					06520	124me 284me

3. PLANKTON

3.1 <i>General</i>	00203	00309	00317	00578
	00589	00698	00782	00856
	00858	01033	01407	01501
	01632	01860	01861	01863
	01921	02065	02156	02157
	03494	03501	03746	04019
	04196	04197	04204	04224
	04349	04394	04590	04600
	04665	04678	04679	04761
	04776	04861	05016	05235
	05692	05702	05967	06319
	06457	06497	06500	06854

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3.4 <i>Nannoplankton</i>			05097		01599	01600	01602	01603
3.5 <i>Productivity</i>	00202	00579	00685		01606	to	01610	01613
	00963	01172	01174	01630		to	01617	01639
	01699	01723	01724	02120		01649	01673	01704
	02153	02175	03327	03585		01708	01709	01712
	03787	04217	04229	04840		01823	01824	01829
	05476	05479	05482	05924		01841	01858	01871
	06145	06239	06351			01908	01927	01958
						02049	02057	to
						02126	02138	02155
4. BENTHOS						02196	02247	02275
4.1 <i>General</i>	00009	00010	00034	00036		02293	02294	02295
	00127	00145	00183	00245		02300	02303	02307
	00263	00272	00289	00448		02324	02327	02351
	00522	00580	00676	00693		02369	to	02376
	00715	00788	00835	00855		02505	to	02510
	00969	01273	01276	01297		02513	02522	02526
	01403	01464	01498	01566		02601	02602	02608
	01618	01619	01620	01627		02625	02630	02638
	01694	01862	02035	02862		02640	02652	02671
	03353	03371	03536	03585		02674	02710	02720
	03805	04053	04219	04223		02783	02857	02963
	04224	04398	04593	04666		02979	02981	02988
	04672	04792	05151	05233		02998	02999	03017
	05245	05334	05490	05614		03027	03034	03046
	05685	05906	05962	05967		03060	03063	03064
	06011	06464	06467	06866		03080	03091	03109
	013me	037me	038me			03112	03120	03158
	039me	342me	362me			03220	03262	03263
4.2 <i>Zoobenthos—systematics and development</i>			00017	00040		03274	03276	03277
	00043	00091	00100	00146		03338	03340	03344
	00147	00193	00194	00196		03365	03370	03556
	00220	00237	00333	00345		03586	03647	03648
	00347	00388	00392	00396		03750	03753	03795
	00397	00400	00406	00506		03801	03803	03806
	00507	00508	00512	00513		03808	03811	03866
	00515	00519	00520	00523		03871	03876	03878
	00525	00526	00532	00537		03894	03896	03898
	00539	00541	00627	00686		03900	03904	03905
	00696	00697	00721	00734		04046	to	04051
	00739	00816	00833	00837		04055	04085	04135
	00838	00840	00879	00975		04157	04191	04202
	00983	00984	00985	00989		04279	04280	04316
	00991	01003	01004	01016		04338	04339	04341
	01024	01159	01181	01214		04429	04476	to
	01217	to	01220	01223		04543	04599	04667
	01226	to	01230	01232		04739	04744	04872
	01233	01235	01236	01239		04874	04877	04882
	01240	01242	01247	01248		04937	04947	04948
	01249	01252	to	01260		04953	04955	04958
	01262	01264	01265	01284		04963	04965	04966
	01289	01290	01291	01293		05006	05009	05011
	01298	to	01301	01459		05018	05019	05169
	01460	01462	01479	01480		05246	05247	05287
	01500	01504	01507	01508		05309	05341	05366
	01509	01512	01592	01593		05375	05397	05401
							to	

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05404 05441 05595 05605
 05684 05961 05979 05980
 05990 to 05993 06057
 06080 06081 06083 06084
 06106 06110 06111 06130
 06207 06214 06262 06294
 06336 06354 06355 06364
 06373 06414 06449 to
 06452 06494 06516 06539
 06576 06733 06734 06793
 06824 06825 321me

4.3 Zoobenthos—Distribution and ecology

00019 00034 00078 00091
 00099 00104 00124 00139
 00184 00186 00187 00189
 00191 to 00194 00198
 00222 00223 00224 00236
 00291 00292 00301 00334
 00389 00396 00403 00406
 00516 00518 00527 00536
 00538 00548 00582 00646
 00669 00686 00694 00697
 00714 00718 00720 00726
 00737 00741 00774 00827
 00832 00833 00837 00838
 00840 00862 00879 00966
 00971 00972 00985 00989
 01014 01020 01044 01137
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 01216 01218 01220 01224
 01227 01228 01230 01234
 01235 01238 01241 01257
 01260 01261 01263 01283
 01286 01292 to 01296
 01305 01408 01432 01463
 01480 01491 01503 to
 01506 01521 01522 01601
 01602 01608 01614 01616
 01646 01649 01650 01675
 01706 01707 01708 01710
 to 01713 01716 01730
 01786 01793 01824 01832
 01904 01959 01963 01964
 01999 02015 02049 02053
 02060 02061 02062 02125
 02126 02127 02135 02158
 02172 02183 02246 02274
 02276 02290 02292 02298
 02299 02302 02304 02307
 02320 02344 02351 02360
 02372 02374 02396 02415
 02422 02423 02510 02511
 02600 02627 02630 02652
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 02794 02856 02858 03038

03040 03044 03053 03060
 03064 03081 03164 03209
 03219 03262 03265 03276
 03277 03330 03334 to
 03337 03340 03362 03375
 03540 03555 03594 03612
 03633 03634 03730 03738
 03750 03754 03809 03843
 03845 03847 03872 03883
 03897 03904 03982 04032
 04045 04054 04055 04135
 04148 04175 04187 04279
 04334 to 04341 04400
 04401 04409 04410 04492
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 06213 06214 06216 06223
 06227 06237 06298 06331
 06333 06338 06344 06345
 06363 06366 06369 06446
 06449 06452 06456 06461
 06505 06595 06646 06730
 06734 06742 06764 06765
 06766 008me

4.4 Zoobenthos—Physiology and behaviour

00004 00016 00041 00069
 00082 00097 00098 00173
 00254 00261 00291 00307
 00318 00324 00331 00332
 00507 00509 00510 00511
 00514 00517 00521 00656
 00746 to 00749 00780
 00814 00974 00976 00979
 00981 00983 00984 00986
 00989 00999 01005 to
 01008 01031 01066 01091
 01175 01186 01200 01222
 01227 01231 01237 01263

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01265	01275	01285	01305	06024	06025	06047	06052
01316	01318	to	01322	06053	06054	06056	06060
01324	01326	01422	01424	06105	06124	06126	06128
01461	01470	01479	01487	06130	06133	06134	06179
to	01490	01509	01517	06194	06236	06238	06248
01522	01523	01524	01538	06249	06252	06334	06349
01591	01592	01615	01647	06367	06375	06414	06447
01651	01652	01653	01660	06459	06482	06499	06539
to	01670	01672	01673	06540	06684	06759	06792
01681	01683	01684	01686	06794	06799	06814	06834
01695	01729	01730	01774	06839	06852	06853	
01784	01785	01872	01878	046me	241me	270me	
to	01881	01915	01927	284me	289me		
01929	01962	01996	02000	4.5 <i>Phytobenthos</i>	00044	00045	00073
02015	02021	02051	02148		00083	00084	00131
02164	02186	02202	02268		00133	00135	00136
02269	02294	02322	02375		00223	00240	00243
02406	02501	02525	02578		00260	00269	00279
02588	02599	02624	02640		00286	00288	00295
02653	02664	02673	02713		00308	00350	00552
02727	02728	02774	02775		00566	00567	00573
02795	02858	02870	02951		00603	00695	00826
02952	02953	02956	02959		00848	to	00851
to	02962	02964	to		00882	00963	00968
02969	02971	to	02976		00995	01002	01026
02978	to	03005	03010		01041	01066	01092
to	03021	03023	03025		01104	01185	01207
to	03029	03043	03047		01279	01305	01307
03120	03148	03150	to		01313	01314	01410
03158	03163	03232	03363		01448	01449	01465
03367	03368	03369	03402		01468	01510	01511
03561	03574	03616	03625		01575	01625	01654
03668	03739	03751	03797		01657	01676	01677
03798	03802	03804	03810		01717	01718	01719
03811	03835	03836	03837		01742	01746	01874
03849	03865	03870	03873		01907	01957	01967
03876	03877	03894	03969		02064	02163	02165
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04332	04577	04578	04598		02359	02361	02368
04618	04620	04622	04623		02381	02395	02402
04632	04635	to	04638		02415	02418	02432
04641	04642	04643	04645		02441	02444	to
04649	04650	04674	04677		02472	02478	02479
04738	04748	04750	04794		to	02492	02494
04799	04800	04810	to		02500	02548	02549
04813	04850	04875	04879		02622	02663	02697
04884	to	04887	04890		02705	02719	02739
04891	04895	04896	04897		02772	02773	02776
04951	04961	05014	05015		02872	02876	02919
05170	05238	05244	05264		to	02935	02955
05273	05368	05435	05596		03006	03008	03009
05600	05603	05604	05606		03030	03032	03041
05607	05609	05610	05908		03066	03110	03137
06008	06010	06012	06023		03149	03186	03258
							03259

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03300 03310 03315 03317
 03318 03324 03391 03504
 03505 03512 03529 03562
 03563 03564 03567 03626
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 03863 03869 03872 03955
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 04149 04205 04207 04212
 04277 04351 04357 04358
 04359 04397 04425 to
 04428 04436 04437 04539
 04541 04551 04569 04582
 04586 04587 04588 04591
 04597 04633 04634 04661
 04668 04718 04733 04760
 04762 to 04766 04768
 04770 04771 04772 04802
 04893 04994 04995 04996
 05025 05096 05099 05155
 05163 05187 05198 05209
 05232 05265 05298 05312
 05313 05328 05336 05338
 05339 05248 to 05353
 05355 05356 05357 05359
 to 05362 05414 05415
 05416 05429 05430 05439
 05473 05494 05546 05547
 05548 05550 05597 05686
 05733 05737 06040 06107
 06108 06127 06159 06161
 06163 06165 06187 06211
 06215 06220 06224 06227
 06235 06244 06245 06250
 06251 06278 06289 06309
 06330 06332 06371 06402
 06403 06462 06463 06470
 to 06476 06503 06578
 06789 06815 06816 06823
 06850
 002me 007me 041me
 195me 260me 333me

5.2 Vessels

03979 04294 04315 04327
 04605 04616 05106 05108
 05109 05110 05121 05124
 05127 05128 05319 05320
 05538 05539 05666 06120
 06122 06123 06242 06305
 06740 06782 049me
 297me 315me
 00108 00613 00660 01042
 01046 01047 01048 01050
 01052 01053 01143 01168
 01336 to 01401 01451
 01452 01485 02095 02096
 02568 02881 03133 03482
 03602 03914 03916 to
 03919 03924 to 03928
 05031 05034 to 05041
 05043 05499 05648 05652
 05661 06198 06272 06547
 06637 to 06643
 098me 160me 207me
 212me 217me 249me
 252me 255me 290me
 335me 340me 346me

5.3 Gear

00046 00076 00079 00080
 00081 00085 00110 00171
 00310 00336 00339 00351
 00376 00409 00413 00419
 00438 00441 00444 00446
 00447 00460 00647 00859
 01049 01055 to 01063
 01143 01338 to 01344
 01346 01372 01450 01484
 01569 01757 01769 01790
 01804 01873 01891 01906
 02067 02087 02107 02114
 02198 02530 02560 02645
 03107 03126 03140 03141
 03250 03393 03394 03413
 to 03417 03424 03425
 03427 03428 03429 03462
 03467 03482 03570 03579
 03731 03841 03920 03929
 to 03932 04075 04216
 04309 04490 04502 04503
 04571 04698 04729 04734
 04909 05044 to 05049
 05051 05461 05521 05522
 05529 05615 05617 05751
 05954 05955 06089 06263
 06271 06279 06300 06306
 06386 06430 06548 06648
 to 06656 06761 06810
 06837
 052me 098me 165me
 216me 234me 236me

5. FISHING (See also 6.8)

5.1 Statistical returns

00311 00610
 00620 00636 00640 00643
 00815 01129 01414 01418
 01749 02010 02178 02179
 02182 02255 02256 02257
 02331 02384 02409 02595
 02917 02918 03095 03145
 03218 03245 03280 03385
 03463 03464 03470 03473
 03499 03639 03675 03662
 03704 03776 03839 03963
 03972 03973 03974 03978

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	263me	276me	283me
	296me	352me	
5.4 <i>Grounds and fishing surveys</i>	00020		
	00037	00038	00039
	00311	00343	00359
	00382	00407	00413
	00430	00436	00437
	00454	00501	00605
	00634	00644	00647
	00665	00872	00873
	01039	01040	01054
	01132	01140	01484
	01540	01565	01691
	01842	01960	02005
	02078	02080	02084
	02099	02176	02197
	02259	02264	02283
	02563	02564	02570
	02643	02679	02702
	02735	02884	02899
	02912	03123	03205
	03291	03345	03355
	03385	03389	03397
	03410	03420	03423
	03430	03437	03439
	03456	03471	03472
	03482	03525	03534
	03784	03910	03911
	03922	03934	03963
	03983	04088	04093
	04297	04315	04325
	04417	04419	04420
	04448	04500	04749
	04941	05215	05538
	05650	05653	05656
	05663	05687	05745
	05747	05758	05759
	06045	06072	06088
	06096	to	06099
	06148	06188	06226
	06282	06288	06356
	06428	06542	06544
	06546	06549	to
	06557	to	06571
	06620	06729	06740
	06802	06836	
	161me	202me	220me
5.5 <i>Fish technology</i>	00051	00052	00053
	00074	00075	00086
	00090	00094	00095
	to	00120	00174
	00357	00408	00416
	00425	00443	00616
	00661	00667	00700
	00878	01034	01038
	01064	01065	01067
		to	

01090	01093	to	01097
01101	01199	01353	01355
01356	01357	01444	to
01447	01453	01454	01658
01847	01848	01864	to
01867	01882	to	01887
01890	01894	01897	01899
01901	01902	01903	01912
01913	01914	01916	01917
02166	to	02169	02249
02250	02340	02342	02472
02473	02474	02476	02477
02478	02480	02481	02493
02495	02497	02498	02552
02592	02658	02763	03051
03390	03437	03438	03439
03443	03788	03921	03923
03935	to	03962	04307
04351	04393	04473	04474
04498	04550	04630	04725
04730	04732	04759	05021
05029	05030	05032	05050
05053	to	05092	05269
05340	05466	05732	05733
05734	05735	05740	05741
05941	05942	05944	06069
06269	06273	06274	06317
06436	06555	06556	06571
06572	06578	06635	06657
to	06682	06687	06688
06689	06763	06813	06818
to	06821	06828	06829
06838	06840	to	06846
06848			
014me	016me	017me	
021me	022me	024me	
099me	149me	179me	
182me	234me	362me	

5.6 <i>Economics of fishing</i>	00121	00340
	00571	00659
	01011	01365
	01760	02597
	02939	to
	03437	03439
	04777	04785
	05166	05225
	05646	05654
	05756	05757
	06268	06269
	06625	06283
	005me	032me
	050me	063me
	347me	318me

6. AQUATIC STOCKS

6.0 <i>General biology</i>	00228	00421	00453
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00565 00570 00666 00706
01135 01268 01269 01533
01579 01580 01587 01644
01822 01825 to 01828
01830 01831 01833 01834
01835 01837 to 01840
01989 01992 02054 02063
02116 02123 02133 02145
02177 02213 02514 02529
02537 02556 02558 02584
02603 02631 02641 02642
02668 02741 02764 02788
02878 02894 02897 03052
03084 03093 03248 03255
03266 03270 03350 03469
03486 03496 03528 03595
03635 03655 03719 03742
03743 03748 03860 03908
04015 04028 04079 to
04084 04132 04185 04193
04194 04195 04214 04319
04320 04432 04449 04458
04480 04481 04482 04493
04608 04804 04817 04825
04828 05102 05119 05132
05139 05318 05410 05520
05527 05543 05725 05729
05730 05731 05739 05963
05969 05978 06005 06182
06195 06208 06259 06406
06427 06527 06697 06703
06708 06770 06787 06858
009me 019me 031me
037me 038me 039me
069me 073me 078me
083me 089me 137me
139me 141me 142me
194me 299me 327me
362me 365me

6.1 Systematics

00021 00148 00316
00319 00338 00395 00401
00405 00433 00434 00555
00568 00628 00631 00654
00689 00712 00723 00728
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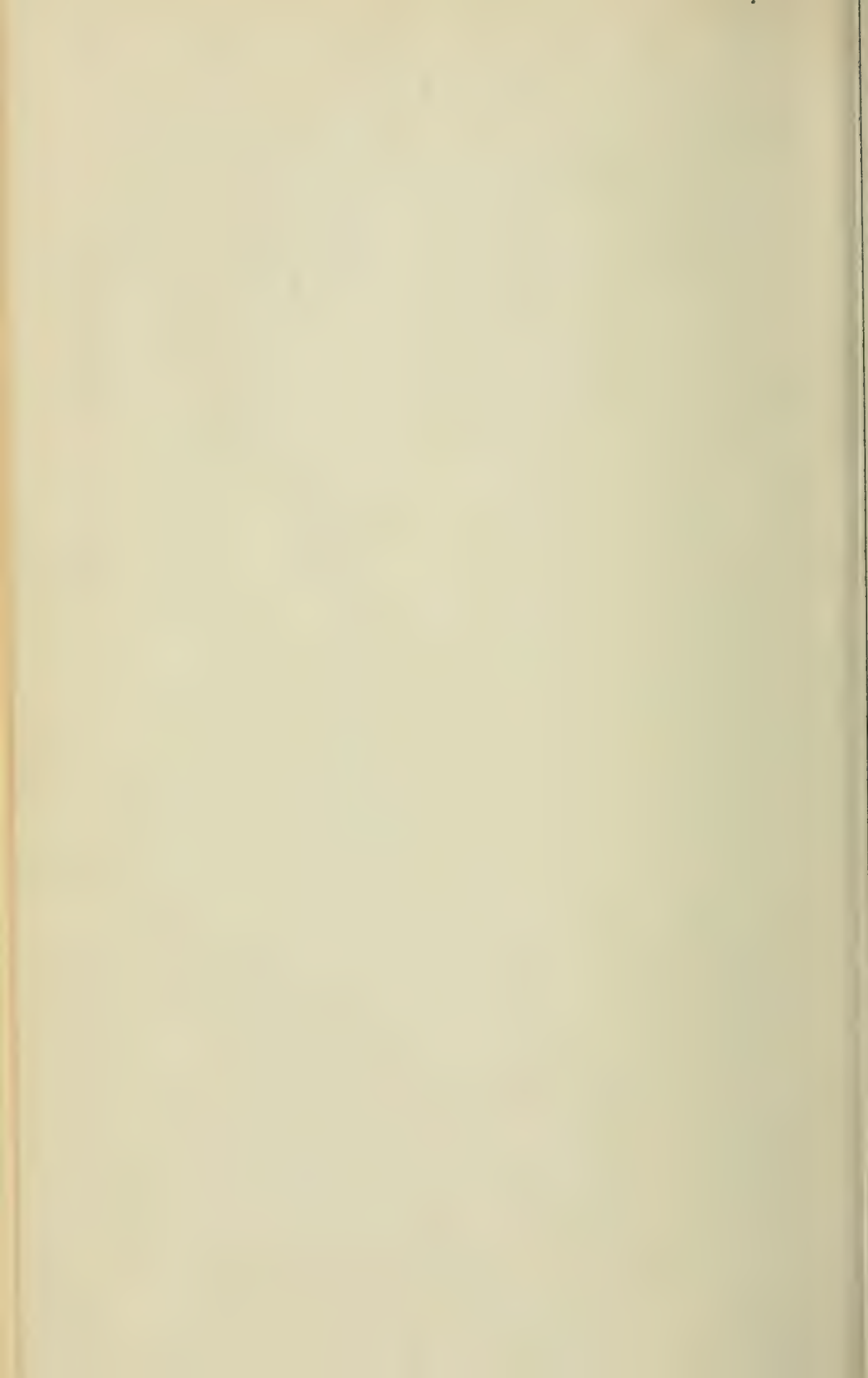
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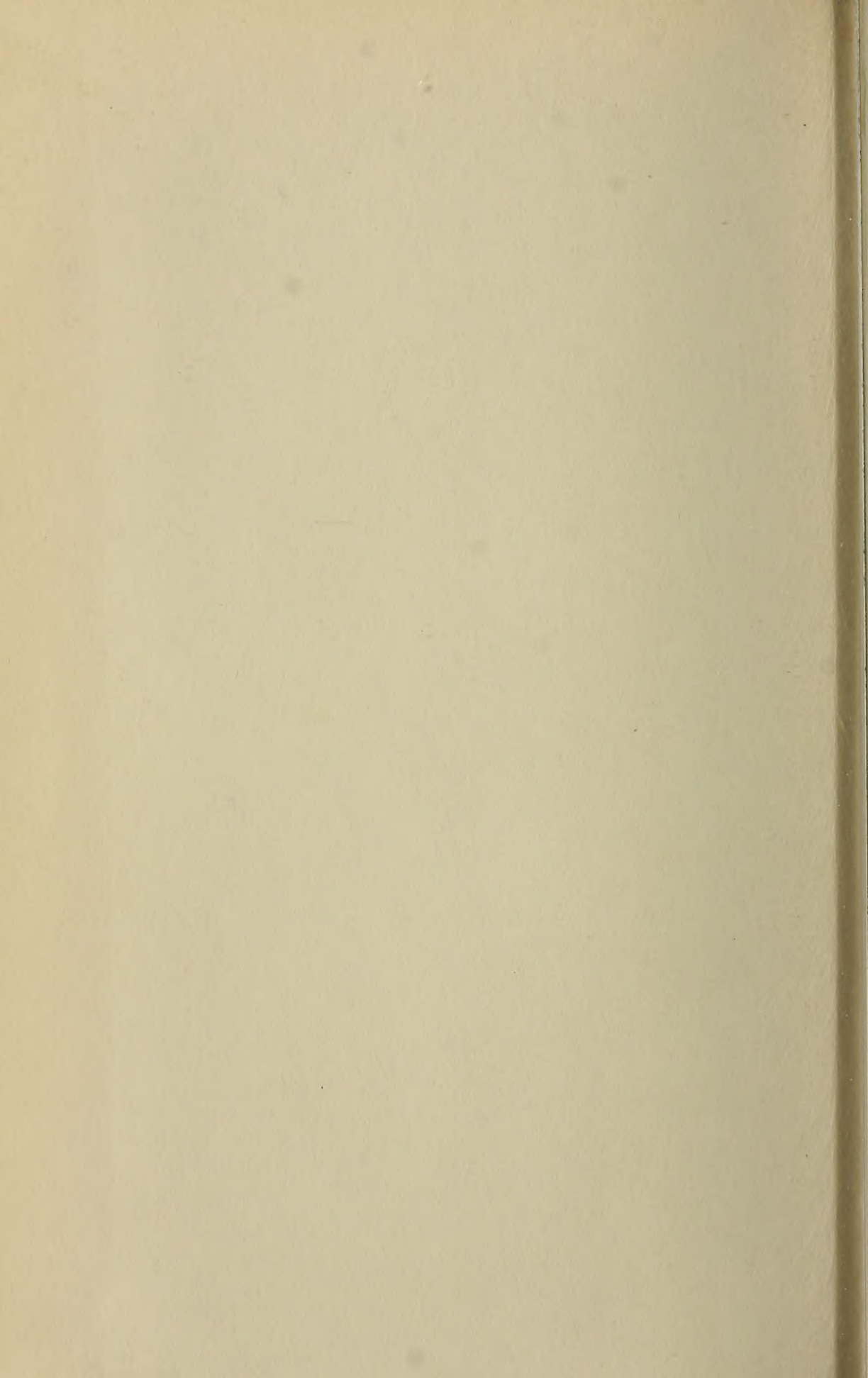
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